सत्यमेव जयते
Govt of Meghalaya

ADJUSTED ACADEMIC CALENDAR

FOR UPPER PRIMARY LEVEL

2020-21



Directorate of Educational Research and Training (DERT),
Education Department

ADJUSTED ACADEMIC CALENDAR
FOR THE UPPER PRIMARY STAGE
CLASSES 6 - 8

Directorate of Educational Research and Training
Arbuthnot Road, Nongrimmaw, Laitumkhrah,
Shillong, Meghalaya 793011

Foreword

The State of Meghalaya has been facing tremendous challenges due to the nationwide lockdown due to COVID-19 pandemic which has resulted in the closure of all educational institutions. This has led to learning losses among learners especially in the rural pockets of the State. As a result, the Education Department has given utmost priority to the two most vulnerable age groups namely, children at elementary level, where learning loss can limit educational progress most and learners transitioning from upper primary to secondary education. To ensure continuous and minimum levels learning, the Directorate of Educational research & Training (DERT) developed the Adjusted Academic Calendar (AAC) for Classes VI – VIII in close consultation with schoolteachers. The rationalised Academic Calendar is to be implemented in all MBOSE affiliated schools of Meghalaya for the session 2020-21.

The AAC has been worked out around the Learning Outcomes (LOs) developed by the National Council of Educational Research and Training (NCERT), New Delhi in 2017 and coded by the DERT in 2020. It is to be noted that the Learning Outcomes are now mandatory in the teaching-learning process in all schools with the amendment of the Meghalaya RTE Act 2009 State Rules of the State and notification No.EDN/RTE-196/2012/182 dt. August 3, 2020.

Professional Learning Communities (PLCs) comprising of schoolteachers from 20 schools drawn from different districts of the state were involved in the mapping of the Learning Outcomes in different subjects areas for classes 1 to 8 with a focus on foundational literacy and numeracy.

The LO based Elementary Stage Academic Calendar for schools in Meghalaya focuses distinctly on core competencies in English, Mathematics, Environmental Studies (EVS), Science and Social Science. Strategies for teaching have not been incorporated in the document. It is recommended that the Alternative Academic Calendars brought out by NCERT may be referred to for model instructional activities.

Schools and teachers are to use this document to prepare for students' continuous learning through unit and lesson planning, communicating with parents lesson targets, planning activities for home learning (parent, sibling, volunteer, peer-to-peer), online lessons, offline learning, notes and other learning resources.

This document is an outcome of the collaborative efforts of the DERT Task Team and teachers from urban as well as rural schools. In view of this, I am hopeful that schools will be able roll out learning activities with a view to mitigate learning losses and ensure minimum levels of learning during these challenging times.



Shri D.P. Wahlang (IAS),
Principal Secretary,
Government of Meghalaya,
Education Department.

Dated: Shillong, 17 August 2020

Acknowledgement

I would like to place on record my sincere gratitude to all the individuals who contributed towards the development and finalization of the Academic Calendar (AC) for Classes I - VIII. Their contributions were noteworthy as the task of drafting the Academic Calendar could not be done through workshops and face to face consultations with subject experts and teachers due to COVID-19 health advisories and protocols.

It may be mentioned that the Academic Calendar is the result of the collaborative online academic exercises undertaken between the DERT Task Team and the Professional Learning Communities (PLCs) from 20 schools from West Garo Hills, West Khasi Hills, East Khasi Hills and West Jaintia Hills Districts of Meghalaya.

In this regard, special mention must be made of the support provided by the Meghalaya School Improvement Program (MSIP) Team of Dr. Lavinia M Dkhar, Monitoring & Research Associate, MSIP; Dr. Mark K. Lyngdoh, Research Associate, MSIP; the District Managers (DM) comprising of Ms. Doreen Shylla, DM East Khasi Hills; Ms. Jessica Elwyn, DM West Garo Hills; Ms. Onika Dhar, DM East Jaintia Hills; Mr. Ahiezer P. Suchiang, DM West Jaintia Hills and Mr. Iaidonryngkat Thangkhiew, DM West Khasi Hills who helped coordinate all academic activities with the schools as district level point persons. I also thank Mr. Nathan J. Nengnong, Executive Assistant, MSIP and Adriel A.L. Nongpyiur, Office Assistant, MSIP for the secretarial support and design of the layout of the Academic Calendar. I am also grateful to Ms. Iadarity Pyngrope, DEO, East Khasi Hills and Ms. Ibashisha Mukhim, DEO, West Jaintia Hills for compiling and collating all Learning Outcomes maps received from schools.

And finally, none of this would have been accomplished without the effort and endurance of the DERT Task Team comprising of Dr. David M. Nongrum, Selection Grade Lecturer and Team Leader, Mrs. Libera Lyngdoh, Sr. Grade Lecturer, Dr. Careleen Y. Kharmalki, Lecturer, and Dr. Baladiangti Nongbri, Sr. Grade Lecturer, DERT.

I also extend my thanks to the DERT reviewing team consisting of Dr. Danibha Pyrbot, Selection Grade Lecturer; Dr. Della G. Soanes, Selection Grade Lecturer; Ms. Arreelin Gathphoh, Sr. Grade Lecturer; Mrs. S. Hynniewta, Senior Grade Lecturer; Mrs. E, Rynjah, Lecturer; Mrs. Wilda Kharbani, Lecturer; Mrs. Beautiful Mylliem, Lecturer and Mrs. Hameki Nonghuloo, Lecturer.

Shri. P.B. Lartang,
I/c Director,
Educational Research & Training,
Meghalaya, Shillong

Dated: Shillong, 17 August 2020

Guidance Note for Teachers on how to use the Academic Calendar for 2020-21

1. Learning Outcomes are today mandatory in the teaching learning process with the amendment of Section 22 (2) Meghalaya RTE Act 2009, State Rules. They are learner-centric and important as they help ensure minimum learning standards for students of all grades (1-10) in key subject areas and are focused on core competencies; in other words, they help ensure a strong foundation for learners to build on.

2. The number of lessons for each Learning Outcome (LO) is indicative. Teachers are to plan their units/lessons taking into consideration the skills and only key concept/knowledge areas identified. Emphasis should be placed on mastery of skills and ensuring deep understanding of only essential knowledge areas.

3. Other than the prescribed textbooks, it is recommended that teachers explore various sources of information, including textbooks available, as long as they are reliable and address (a) the identified Learning Outcomes, (b) what learners should able to do (reflected in the action verbs), and (c) what learners need to know/understand (reflected in the knowledge/concept areas).

4. Topics and sub-topics too are indicative and not exhaustive. Teachers may decide on the content areas to cover through Direct Instruction/ Teacher Driven Instruction (DI) and/ or Assignments through Project/ Inquiry Based Learning (PBL) after undertaking content analysis exercises based on the identified LOs for each Subject and Class for which students need to be assessed. Lessons can then be planned for home learning, online classrooms, remote learning, etc. depending on the situation.

5. All links included in this document are only available as long as the original content owners allow them to be accessible for public viewing in the concerned web portals.

6. All teachers are to identify their own links for the different LOs for sharing with parents and students. Please verify that all links work before sharing. Resources created like videos and audio files may also be shared with us at the email ID given at the Sl. No. 14.

7. Informal Assessments must be embedded in every lesson. Evidence of student mastery (how will we know when learners know it?) must be thought out during unit and lesson planning stage for every Learning Outcome and Learning Objectives identified in every lesson.

8. Informal methods of checking student understanding must be employed, and it is important to collect evidence of learning over time. Teachers are advised to work with students and document their learning continuously. Regular feedback and guidance to learners must be given priority. It is also important to let them know what they need to submit and when they need to do so.

9. Teachers should also use the Academic Calendar to plan out home learning activities where parents/siblings/volunteers can provide support through various activities at home.

10. Wherever possible, teachers can ask students to submit short reflection videos on WhatsApp or send photos of their progress. Screenshots also work well.
11. It is highly recommended that all teachers explore NCERT's Alternative Academic Calendar and the LO based various teaching - learning strategies/ activities and come up with their own teaching learning activities for Meghalaya's Academic Calendar.
12. Teachers must communicate with parents wherever teachers and students do not have virtual classroom facilities or access to internet services by using SMS messages as mobile phones are available in most homes.
13. Teachers may also contact parents and students using internet based technological tools for giving them appropriate guidelines for conducting activities designed by them in alignment with the Academic Calendar wherever internet services are available.
14. In case of further clarifications on the different aspects of the Meghalaya's Adjusted Academic Calendar for 2020-21 or recommendations/suggestions for improvement, you may write to us at **ict.dert@gmail.com.**

The Task Team,

Directorate of Educational Research & Training, Meghalaya

Academic Calendar Task Team & Coordinators

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ENGLISH
CLASSES 6 - 8

CLASS 6: ENGLISH

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.E.LO1	Participates in activities in English like role play, group discussion, debate etc.	Participate	Role play, Group discussion, Debate	DI/ PBL	Grandpa tickles a tiger	3	https://study.com/academy/lesson/a-tiger-in-the house-summaryhtm/lesson
6.E.LO2	Recites and shares poems, songs, jokes, riddles, tongue twisters, etc.	Students can recite and share poems, songs, jokes, riddles, tongue twisters and recognise the sound of each line	Students will know the alliteration or the same sound or letter of the words in a sentence.	DI	Day and day Songs Jokes Riddles Tongue twisters	2	https://www.peotry4kids.com>how…
6.E.LO3	Responds to oral messages, telephonic communication in English and communicates them in English or home language.	Can respond and converse in English / home language to oral messages and telephonic communication	Knowledge of relevant vocabulary, conversation skill	PBL	School Curriculum Activities.	3	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.E.LO4	Responds to announcements and instructions made in class, school assembly, railway station and in other public places	To act accordingly as per instructions/ announcements	Responding to the announcement made both in the assembly and class at school.	PBL	School Curriculum Activities.	3	
6.E.LO5	Reads a variety of texts in English / Braille and identifies main ideas, characters, sequence of ideas and events and relates with his / her personal experiences	Read Identify Relate	Ideas Characters Sequence of events	DI	Ferdinand, the Bull	5	https://youtube/UN62cx5Q8

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.E.LO6	Reads to seek information from notice board, newspapers, Internet, tables, charts, diagrams and maps etc.	To read and assimilate the information from notice board, newspaper, and internet.	Information collected from different sources.	DI	Composition	4	https://wwwenglishclub.com>gram...
6.E.LO7	Responds to a variety of questions on familiar and unfamiliar texts verbally and in writing	To read and respond verbally and in writing to questions on familiar and unfamiliar texts	The crux of the questions asked	DI	The toy box The white mouse circus.	5	
6.E.LO8	Uses synonyms, antonyms, appropriately deduces word meanings from clues in context while reading a variety of texts.	Select, underline, list, deduce, and apply.	Vocabulary	PBL	1. Sindbad the Sailor (Rapid Reader) 2.The Magic of Kondapalli Toys 3. The Shadow 4. Ferdinand, the Bull 5. Synonyms and Antonyms	5	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.E.LO9	Writes words/ phrases/ simple sentences and short paragraphs as dictated by the teacher	Listen and write from the teacher's dictation	Vocabulary, Writing skill, punctuations	DI	Dictation	3	
6.E.LO10	Uses meaningful sentences to describe/narrate factual/imaginary situations in speech and writing	Identify Describe	An event A situation in simple sentences	DI	Factual / imaginary situations	10	
6.E.LO11	Refers to dictionary to check meaning and spelling, and to suggested websites for information	Browse the Internet and use dictionary as a reference book for finding multiple meanings of a word in a variety of contexts.	Knowledge of using the Dictionary and internet browsing	DI/ PBL	Vocabulary	1	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.E.LO12	Writes grammatically correct sentences for a variety of situations, using noun, pronoun, verb, adverb, determiners, etc.	Write with proper usage of nouns, pronouns etc.	Sentence construction, nouns, pronouns, verbs and determiners.	DI	Sentence Construction Parts of Speech	10	
6.E.LO13	Drafts, revises and writes short paragraphs based on verbal, print and visual clues	Draft, revise and write short paragraphs based on clues	Drafts, spellings and adequate general knowledge	DI	Drafts Vocabulary	10	
6.E.LO14	Write coherently with focus on appropriate beginning, middle and end in English / Braille	Compose	A story based on a particular picture	DI/ PBL	Composition	10	https://youtu.be/0h6bFKDqyDU https://youtu.be/waToWktB7ag

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.E.LO15	Writes messages, invitations, short paragraphs and letters (formal and informal) and with a sense of audience	Write messages, invitations, letters and short paragraphs	Different formats of writing messages and paragraphs. Difference between a formal and informal letter	DI	Paragraph and Letter Writing.	10	
6.E.LO16	Visits a language laboratory	Learn more about the language and be familiar with it	Vocabulary and variety of expression	PBL	Learning Better English.	2	
6.E.LO17	Writes a Book Review.	Comprehend the core ideas in the book; enumerate them in a concise manner and provide their own opinion about it.	Reviewing books in English.	PBL	Book review.	4	
Total Number of Lessons						**90**	

CLASS 7: ENGLISH

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
7.E.LO1	Answers questions orally and in writing on a variety of text	Answer questions correctly either orally or in writing	Comprehension	DI / PBL	Comprehension Speaking and writing skills.	6	
7.EO.LO2	Reads aloud stories and recite poems with appropriate pause, intonation and pronunciation	Read out loud with confidence and correct pronunciation	The ability to read out well	DI	Pronunciation, Intonation, Pause	5	
7.E.LO3	Participates in different activities in English such as role play, poetry recitation, skit, drama, debate, speech, elocution, declamation, quiz, etc., organised by school and other such organisations	Participate and Interact with peers, develop self confidence	Gather information for self-development	PBL	Co-curricular activities	4	
7.E.LO4	Engages in conversations in English with family, friends, and people from different professions such as shopkeeper, salesperson etc.	Communicate well, build vocabulary	Vocabulary associated with various professions (e.g. cook, cobbler, farmer, blacksmith, doctor etc.)	PBL	Communication	2	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
	using appropriate vocabulary						
7.E.LO5	Responds to different kinds of instructions, requests, directions in varied contexts viz. school, bank, railway station	Follow the instructions	Identification of the symbols, sign boards, hoardings, etc. in public places.	PBL	Instructions	2	
7.E.LO6	Speaks about excerpts, dialogues, skits, short films, news and debate on TV and radio, audio–video programmes on suggested websites	Speak on various topics	Need to know / understand the ideas, issues behind the programme	PBL	Motivational talks	5	https://youtu.be/yXcWJm7J538
7.E.LO7	Asks and responds to questions based on texts (from books or other resources) and out of curiosity	Ask freely and respond to any questions	Raise a question effectively and use appropriate vocabulary to answer	DI	Comprehension	3	https://books.google.com>about
7.E.LO8	Reads textual / non-textual materials in English / Braille with comprehension	To process, understand and integrate information from the passage	Relevant information in the passage	DI	Reading Comprehension	4	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
7.E.LO9	Identifies details, characters, main idea and sequence of ideas and events in textual / non – textual material	Identify	Details, characters, main ideas sequences of events textual/ non textual material	DI	Chess for children	4	
7.E.LO10	Thinks critically, compares and contrasts characters, events, ideas theme and relates them to life	Think critically, compare, contrasts, relates	Characters, events, ideas, themes	DI	My Mother's Games	4	
7.E.LO11	Reads to seek information in print / online, notice board, signboards in public places, newspapers, hoardings etc.	Read and interpret	Information in print, notice board etc.	DI and Individual works	Print Notice board Signboard Newspaper Hoardings, etc.	2	https://m.youtube.com/watch?v=Yym-a1NlgVU
7.E.LO12	Takes notes while the teacher teaches from other books / from online materials.	Take notes	Active listening, discerning	DI	Chess for children Online materials	3	
7.E.LO13	Infers the meaning of unfamiliar words by reading them in context	Use word parts to determine the meaning of an unfamiliar word	Word clues, vocabulary.	DI	The Cherry orchards	3	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
7.E.LO14	Refers dictionary, thesaurus and encyclopedia to find meanings / spelling of words while reading and writing	Identify difficult words from the text and use the dictionary, thesaurus and encyclopedia	Usage of dictionary, thesaurus and encyclopedia	DI	Vocabulary	1	
7.E.LO15	Reads a variety of text for pleasure, e.g. adventure stories, fairy tales, biography, autobiography, travelogue etc. (extensive reading)	To enjoy reading books outside the prescribed text book	Improvement of vocabulary, diversified reading taste	DI / PBL	Reading Skills	3	
7.E.LO16	Uses appropriate grammatical forms in communication (e.g. noun, pronoun, verb, determiners, time and tense, passivisation, adjective, adverb, etc.)	Use appropriate grammatical forms while communicating with people or through writing	Knowledge of grammatical forms	PBL	1. The Noun 2. Pronoun 3. Determines 4. Adjective 5. Verb 6. Adverb.	5	https://link.soringer.com>chapter

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
7.E.LO17	Organises sentences coherently in English / in Braille with the help of verbal and visual clues and with a sense of audience	Grasp the main ideas or concepts presented and form a gist of their own about it; express them in a presentable manner by forming grammatically correct and coherent sentences which capture the events recalled or ideas touched upon beautifully, avoiding unnecessary repetitions.	Identification of key words. Meanings. Coherence in sentences. Use of appropriate words. Avoidance of unnecessary repetitions. Correct Pronunciations. Pauses in accordance to punctuations. Intonations.	PBL	Paragraph-writing Coherence Choice of words Avoidance of repetition Pronunciations Punctuations Articulation Intonation	8	https://www.learncbse.in/cbse-class-7-english-paragraph-writing/ https://www.learncbse.in/cbse-class-7-english-paragraph-writing-based-on-verbal-input/ https://www.learncbse.in/cbse-class-7-english-paragraph-writing-based-on-visual-input/
7.E.LO18	Writes formal letters, personal diary, list, emails, SMS, etc.	To write a diary, formal letters in a prescribed format, and compose email using appropriate language	Process of drafting, editing and revising	DI	Letter Writing Email Writing	5	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
7.E.LO19	Writes descriptions / narratives showing sensitivity to gender, environment and appreciation of cultural diversity.	Identify, locate and write showing concern for social, cultural and environmental issues	Conscious and aware of social, cultural and environmental issues	DI / Activity based	Kaziranga Grassland of Giants-Valmik Thapar	10	
7.E.LO20	Writes dialogues from a story and story from dialogues	Grasp and understand the main ideas in the story. Form direct speech from indirect speech and vice-versa without altering the meanings.	Keywords in a story. Meanings. Direct and Indirect speech; their definition and difference and usage.	DI	Storyline, Key words, Meanings, Direct Speech, Indirect Speech	5	ü https://www.learncbse.in/cbse-class-7-english-grammar-reported-speech/ ü https://www.learncbse.in/cbse-class-7-english-story-writing/
7.E.LO21	Visits a language laboratory.	Learn the English Language better by visiting the English Language Laboratory.	Vocabulary and variety of expression	PBL	Leaning better English	2	ü https://www.digitalteacher.in/english-language-lab
7.E.LO22	Writes a Book Review.	Comprehend the core ideas in the book; enumerate them in a concise manner and provide their own opinion about it.	Reviewing books in English.	PBL	Book Review	4	ü https://bookriot.com/2019/02/14/how-to-write-a-book-review/
Total Number of Lessons						**90**	

CLASS 8: ENGLISH

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know / understand	DI / PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.E.LO1	Responds to instructions and announcements in school and public places viz. railway station, market, airport, cinema hall, and act accordingly.	Communicate effectively in real life situation and act accordingly	Know the skill of listening and speaking correctly	DI /PBL	Announcement	2	
8.E.LO2	Introduces guests in English, interviews people by asking questions based on the work they do.	Participate in individual activities such as introducing guest in school programmes and develop listening ability	Communication skill, preparation, the way of introducing a guest and taking interview	DI /PBL	Interviews and introducing a guest	3	https://youtu.be/UlNjO8CJhI0
8.E.LO3	Engages in conversations in English with people from different professions such as bank staff, railway staff, etc. using appropriate vocabulary.	Improve vocabulary associated with different professions and use them in different situations	Importance of conversation and interaction	DI /PBL	Building vocabulary and communication skills	3	https://youtu.be/fcKniJHVQ3w

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know / understand	DI / PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.E.LO4	Uses formulaic / polite expressions to communicate such as 'May I borrow your book?', 'I would like to differ' etc.	Use polite expressions while communicating with others	Appropriate expressions to communicate, greet or request	DI /PBL	Words and expressions	2	
8.E.LO5	Speaks short prepared speech in morning assembly.	Make a short speech	Speaking skills	DI /PBL	Speech Preparation	2	
8.E.LO6	Speaks about objects / events in the class / school environment and outside surroundings.	Use constructive sentences about objects, school environment and outside surroundings in English	Knowledge of identifying and observing events, objects, and surroundings so as to interpret about them accordingly	DI /PBL	Speaking skill	3	
8.E.LO7	Participates in grammar games and kinesthetic activities for language learning.	To acquire new grammatical terms and follow the rules in various areas	Grammatical rules	DI /PBL	Playing with words	2	http://www.tinyteachingtube

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know / understand	DI / PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.E.LO8	Reads excerpts, dialogues, poems, commentaries of sports and games speeches, news, debates on TV, Radio and expresses opinions about them.	Express their views and opinions about different areas confidently thereby making them more assertive in encountering and solving out different situations.	Knowledge about dialogues, poems, sports and games, speeches, news etc.	DI /PBL	Reading dialogues, excerpts and poems	4	
8.E.LO9	Asks questions in different contexts and situations (e.g. based on the text / beyond the text / out of curiosity / while engaging in conversation using appropriate vocabulary and accurate sentences)	Converse with appropriate vocabulary and accurate sentences and communicate ideas and thoughts clearly and accurately	Words and meanings related to the context	DI /PBL	Comprehension (A shot in the dark, The Silver lining, The World-Renowned Nose, Extreme Weather, Dreaming of the dawn wall)	3	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know / understand	DI / PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.E.LO10	Participates in different events such as role play, poetry recitation, skit, drama, debate, speech, elocution, declamation, quiz, etc., organised by school and other such organizations;	Perform in different aesthetic and cultural events	Know about fascinating and dynamic use of language	DI /PBL	Story (The Ant Lion, A Boy's best friend, A helpless situation, Twelfth night) Poem (When I heard the learn'd astronomer, Where the mind is without fear, On the grasshopper and cricket)	4	
8.E.LO11	Narrates stories (real or imaginary) and real life experiences in English	Narrate events and experiences, express and communicate both verbally and written	Rules of narration, sequential order of events	DI, Activity Based Learning	The Last Leopard - Lauren St John	3	lovereading4kids.co.uk
8.E.LO12	Interprets quotations, sayings and proverbs.	Bring out the main idea of sayings, quotations and proverbs logically	Significance or importance of speeches, quotations and proverbs	DI /PBL	Proverbs	2	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know / understand	DI / PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.E.LO13	Reads textual/non-textual materials in English/Braille with comprehension.	Comprehend the text or other materials and respond accordingly	Sense of the text read or the concept of materials provided	DI /PBL	Reading with comprehension	4	
8.E.LO14	Identifies details, characters, main idea and sequence of ideas and events while reading.	Student should have reading skills developed to the extent that he / she is able to identify details, characters, main idea and sequence of ideas and events while reading	Reading and Comprehension Skills	DI /PBL	Reading and Comprehension Skills	4	
8.E.LO15	Reads, compares, contrasts, thinks critically and relates ideas to life.	Read, listen, compare, contrast, describe, understand, recall, appreciate, relate.	Theme of the stories, role of the characters, moral of the stories, vocabulary.	DI	Invitation Dipa Karmakar God Sees the Truth But Waits After Twenty Years Rescued Rising from the Ashes The Comedy of Errors	5	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know / understand	DI / PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.E.LO16	Infers the meaning of unfamiliar words by reading them in context.	Develop vocabulary by inferring the meaning of unknown words from the way they appear in the text alongside familiar words and phrases.	Inferential Thinking, Vocabulary	DI /PBL	Inferential Thinking, Development of Vocabulary	2	
8.E.LO17	Reads a variety of texts for pleasure e.g. adventure stories and science fiction, fairy tales, also non-fiction articles, narratives, travelogues, biographies, etc. (extensive reading)	Read story books and other literary works in order to expand the reading horizon. Review text and give one's opinion.	Leisure Reading, Book Review	DI /PBL	Leisure Reading, Book Review	2	
8.E.LO18	Refers dictionary, thesaurus, and Encyclopedia as reference books for meaning and spelling while reading and	Develop the habit of using a dictionary when reading or writing in order to understand the meanings of new	Dictionary, Word Meaning / the use of the Dictionary	DI /PBL	Vocabulary	1	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know / understand	DI / PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
	writing.	words learnt and able to use them in daily conversation.					
8.E.LO19	Prepares a write up after seeking information in print / online, notice board, newspaper, etc.	Prepare a write up after seeking information	Drafting, editing, revising and finalising	PBL	Any print material	2	
8.E.LO20	Communicates accurately using appropriate grammatical forms (e.g., clauses, comparison of Adjectives, time and tense, active and passive voice, reported speech, etc.,)	Communicate Use appropriate grammatical forms	Clauses, Comparison of Adjectives, Time and tense, Active and Passive voice, Reported Speech.	DI /PBL	Clauses - Noun Clause and Adverb Clause Comparison of Adjectives Tenses Active and Passive voice	5	https://www.grammar-monster.com/glossary/clause.htm https://en.wikipedia.org/wiki/Clause https://www.englishgrammar101.com/module-10/clauses/lesson-5/noun-clauses#:~:text=A%20noun%20clause%20is%20a,I%20had%20a%20test%20today. https://www.grammar-monster.com/glossary/noun_clauses.htm

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know / understand	DI / PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.E.LO21	Writes a coherent and meaningful paragraph through the process of drafting, revising, editing and finalizing.	Write with proper understanding of topic using established processes of creative writing.	Composition	DI /PBL	Composition	5	
8.E.LO22	Writes short paragraphs coherently in English/Braille with a proper beginning, middle and end with appropriate punctuation marks.	Write short paragraphs keeping in mind unity of idea, clarity, impact etc.	Braille, Creative Writing, Punctuation	DI /PBL	Braille, Creative Writing, Punctuation	8	
8.E.LO23	Writes answers to textual/non-textual questions after comprehension / inference; draws character sketch, attempts extrapolative writing.	Write answers to queries from textual or non-textual sources after understanding & inferring. Be able to make a character sketch and also write basing prediction on previous	Creative Writing, Reading and Comprehension	DI /PBL	Creative Writing Reading and Comprehension	6	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know / understand	DI / PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
		instances.					
8.E.LO24	Writes email, messages, notice, formal letters, descriptions / narratives, personal diary, report, short personal / biographical experiences, etc.	Writes correctly	Organisation of ideas, development of thought and imagination, use of appropriate vocabulary, punctuation, coherence.	DI /PBL	Notice Writing Messages E-mail Bio-sketch Paragraph writing Story Writing	6	
8.E.LO25	Develops a skit (dialogues from a story) and story from dialogues.	Write creatively with proper understanding of plot, storyline, characters.	Keywords in a story. Meanings Direct and Indirect speech; their definition and difference and usage.	DI Individual work	Storyline, Key words, Meanings, Direct Speech, Indirect Speech	3	https://m.youtube.com/watch?v=k4PeUWd3TG8
8.E.LO26	Visits a language laboratory.	Learn the English Language better by visiting the English Language Laboratory.	Vocabulary and variety of expression	DI / PBL	Leaning better English	2	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know / understand	DI / PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.E.LO27	Writes a Book Review.	Read story books and other literary works in order to expand the reading horizon. Review text and give opinion.	Reviewing books in English.	DI /PBL	Book Review	2	
Total Number of Lessons						**90**	

MATHEMATICS
CLASSES 6 - 8

CLASS 6: MATHEMATICS

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.M.LO1	Solves problems involving large numbers by applying appropriate operations (addition, subtraction, multiplication and division	Solving problems involving large numbers by applying appropriate operations, simplification.	1. Concept of the four operations Addition, Subtraction, Multiplication and Division. 2. The use of brackets in simplifying expressions.	DI	Playing with Numbers	5	https://youtu.be/D60iGKOLY
6.M.LO2	Recognises and appreciates (through patterns) the broad classification of numbers as even, odd, prime, co-prime, etc.	Classify, Recognise, Identify	Identify -Odd numbers -Even numbers -prime numbers -co primes	DI	Odd numbers -Even numbers -prime numbers -co primes	5	
6.M.LO3	Applies HCF or LCM in a particular situation	Apply, Find	Applications of -HCF and LCM In a particular situation	PBL	prime factorization -Methods of prime factorization -HCF -Finding HCF using division method -HCF of three or more numbers -LCM -Properties of HCF and LCM -Applications of HCF and LCM	6	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6M.LO4	Solves problem involving addition and subtraction of integers.	Solve, compare,	Solution of problems involving addition and subtraction of integers.	DI	Negative integers-Absolute value of integers-Operations of Integers-Addition of Integers-Subtraction of Integers-Multiplication of Integers-Division of Integers-Representation of Integers on number line-comparing and ordering integers	6	
6M.LO5	Uses fractions and decimals in different situations which involve money, length, temperature etc. For example, 7½% metres of cloth, distance between two places is 112.5 km etc.	Apply, Use	Application of fractions and decimals in daily practical situation	DI	Fractions Types Comparison Addition, subtraction, Decimal fractions, Conversion of Fractions into decimals, Word Problems	6	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.M.LO6	Solves problems on daily life situations involving addition and subtraction of fractions/decimals	Apply, Use, Measure	Application of operations with fractions in different practical situations	DI	Equivalent fractions Types Simplest form of fraction Comparison of fractions Operations with fractions Addition, subtraction, multiplication, division Decimal fractions Comparison of decimals	5	
6.M.LO6	Solves problems on daily life situations involving addition and subtraction of fractions/decimals	Application of fraction and decimal number.	Addition, subtraction, multiplication and division.	DI	Application of fraction and decimal numbers	3	
6M.LO7	Uses variable with different operations to generalize a given situation. e.g., Perimeter of a rectangle with sides x units and 3 units is 2(x+3) units	Uses variable with different operations to generalize a given situation.	Addition, subtraction of integers.	DI	Algebra	4	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6M.LO7	Uses variable with different operations to generalise a given situation. e.g., Perimeter of a rectangle with sides x units and 3 units is 2(x+3) units	Use/solve/Apply	Express and Solve Problems using algebraic equations - Perimeter of rectangle- Perimeter of triangle Circumference of a circle	DI		5	
6.M.LO8	Compares quantities using ratios in different situations. e.g., the ratio of girls to boys in a particular class in 3:2	Compare,	Compare the various ratios Greater than or less than equal to	DI	Ratio equivalent ratio simplest form comparison of ratios	4	-
6.M.LO9	Uses unitary method in solving various word problems. For example, if the cost of a dozen notebooks is given, she finds the cost of 7 notebooks by first finding the cost of 1 notebook	Use/apply	Application of unitary method to solve word problems involving simple arithmetic/algebra/geometry	DI	Fractions Integers Perimeter algebra	3	-

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.M.LO10	Describes geometrical ideas like line, line segment, open and closed figures, angle, triangle, quadrilateral, circle, etc., with the help of examples in surroundings	Students need to Describes geometrical ideas.	1. To identify the type of lines and angles. 2. To classify triangles on the basis of sides and angles. 3. To measure angles using a protractor. 4. To classify quadrilateral on the basis of sides and angles.	PBL	1. Basic Geometrical Ideas 2. Understanding Elementary Shapes. 3. Types of Quadrilateral.	6	https://youtu.be/dQxcZxQmVk https://youtu.be/HfH7wg22URs
6.M.LO10	Describe Geometrical ideas like Line, line segment, open and closed figures, angle, triangle, quadrilateral, circle, etc., with the help of examples in surroundings	Describe	Basic concepts Point, line, Ray, Line Segment Surface, Plane, Parallel lines, Intersecting lines, Collinear points, concurrent lines, open and closed figures, Angle, triangle, Rectangle, Square, Rhombus, Parallelogram, Circle, Concepts of an Angle	DI/ PBL	Fundamental concepts, Basic Concept Points, Line, Ray Line Segment, Surface, Plane, Parallel lines, Intersecting lines, Collinear points, Concurrent lines Open and closed figures Concept of an Angle	8	https://youtu.be/c0RWBk6wonk
6.M.LO10	Describes geometrical ideas like line, line segment, open and closed figures, angle, triangle, quadrilateral, circle, etc., with the	Describe, Explain/ Observe	Describe, Explain/ observe-ideas like Point, Line Segment, Angle Open, figures - examples, Closed figures -examples-	DI	Basic geometrical ideas-point, lines, concurrent lines, open figures, closed figures, Triangle, polygon,	5	-

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
	help of examples in surroundings		polygon- triangle- quadrilateral circle		quadrilateral, circle		
6.M.LO11	Demonstrates an understanding of angles by	Investigate	Identify and investigate the various types of angles formed around us by the objects we interact with	PBL	Angles, Triangles, obtuse angle, acute angle straight angle Complete angle	3	
6.M.LO11.1	Identifying examples of angles in the surroundings	Identify		PBL		5	
6.M.LO11.1	Identifying examples of angles in the surroundings	Identify	Angles in different objects and figures like table, books, cones. Different parts of an angle	DI	Angles	2	
6.M.LO11.1	Identifying examples of angles in the surroundings	Identifying examples of angles in the surroundings	Clear concept of angles.	DI	Magnitude of and angle	2	
6.M.LO11.2	Classifying angles according to their measure	Classifying angles according to their measure.	Definition of an angle and magnitude of an angle	DI	Types of angle	3	
6.M.LO11.2	Classifying angles according to their measure	Classify, Differentiate,	Classification of various types of angles- acute -obtuse -right angle	DI	Angles, Types of angles	3	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.M.LO11.3	Estimating the measure of angles using 45°, 90°, and 180° as reference angles	Estimate	Estimate the measurement of standard appearing angles in various shapes in the objects in our surrounding	DI	Angles, Types of angle Measurement of angles	3	
6.M.LO12	Demonstrates an understanding of line symmetry by	Demonstrate an understanding of line symmetry.	The meaning of symmetry	DI	Symmetry	2	-
6.M.LO12.1	Identifying symmetrical 2-Dimensional (2-D) shapes which are symmetrical along one or more lines	Identifying symmetrical 2-Dimensional shapes.	Construction of different types of figures.	DI	Symmetry in the geometrical shape or design.	3	
6.M.LO12.2	Creating symmetrical 2-D shapes	Drawing, making, creating	symmetrical 2-D shapes	DI/ PBL	Different symmetrical objects	4	
6.M.LO13	Classifies triangles into different groups/ types on the basis of their angles and sides. For example- scalene, isosceles or equilateral on the basis of sides, etc.	Classification of triangle or the basis of their angles and sides.	Different types of angles and concept of sides.	DI	Triangles	2	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.M.LO14	Classifies quadrilaterals into different groups/types on the basis of their sides/ angles	Classify	Classification of quadrilaterals into parallelogram trapezium rhombus square rectangle		Types of Quadrilaterals parallelogram trapezium rhombus square rectangle	3	
6.M.LO15	Identifies various (3-D) objects like sphere, cube, cuboid, cylinder, cone from the surroundings	Identify/ List/ Recognize/ Observe	Identification of various 3d objects from our surroundings cone cuboid cube cylinder sphere	PBL	Identification of three-dimensional shapes cone cuboid cube cylinder sphere	3	
6.M.LO16	Describes and provides examples of edges, vertices and faces of 3-D objects	Describes with examples	edges, vertices and faces of 3 D objects	DI/ PBL	Properties of 3 D shapes	3	https://www.khanacademy.org/math/basic-geo/basic-geometry-shapes/basic-geo-properties-shapes/v/recognizing-shapes

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.M.LO17	Finds out the perimeter and area of rectangular objects in the surroundings like floor of the class room, surfaces of a chalk box etc.	finds out the perimeter and area of rectangular objects in the surroundings like floor of the class room, surfaces of a chalk box etc.	Convert of S.I. unit multiplication and division of SI unit quantities	DI	Mensuration	3	
6.M.LO18	Arranges given/ collected information such as expenditure on different items in a family in the last six months, in the form of table, pictograph and bar graph and interprets them	Arrange, assemble/ construct	Arrangement of the raw data for number of COVID 19 cases in the month of Feb, Mar, April, May, June in Meghalaya in a table and construct a bar graph	PBL	Bar Graph Construction of a bar graph	3	
Total Number of Lessons						**118**	

CLASS 7: MATHEMATICS

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
7.M.LO1	Multiplies/divides two integers	Solve, Evaluate, Find	Solutions of problems involving multiplication and division of two integers	DI	Integers - Fundamental operations on integers	4	
7.M.LO2	Interprets the division and multiplication of fractions. For example, interprets 2 /3 x 4/ 5 as of 2/3 of 4/5. Also 1/2 ÷ 1/4 is interpreted as how many 1/4 make 1/2?	Multiply and divide fractions	Fractions and multiplication table	DI	Fraction and decimal	4	
7.M.LO3	Uses algorithms to multiply and divide fractions/decimals	Evaluates	Multiplications of integers, division of integers	DI	Multiplication of rational numbers, Division of rational numbers	6	
7.M.LO3	Uses algorithms to multiply and divide fractions/ decimals	Demonstrate the concept of decimals	Define various concept of decimals	DI	Fractions and Decimals Types of decimals Conversion of fraction to decimal vice versa	4	Self-made video and voice recording
7.M.LO4	Solves problems related to daily life situations involving rational numbers	Solve, Find, Apply	Application of rational numbers-finding solutions of problems related to daily life situations involving	DI	Rational numbers – Operations on rational numbers- addition, subtraction,	3	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
					multiplication, division		
7.M.LO4	Solve problems related to daily life situations involving Rational numbers	Can solve problems related to daily life situations	Explain the concept of rational numbers	DI	Rational Numbers. Find unknown terms Statement problems	5	Self-made video and voice recording
7.M.LO5	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers.	Apply, Use	Application Laws of exponents to simplify problems involving large numbers	DI	Powers and Exponents - Laws of Exponents	4	
7.M.LO6	Represents daily life situations in the form of a simple equation and solves it	Apply, Use	Application of Framing a simple linear equation to present a daily life situation	DI	Simple Linear Equations - Framing an equation - Solving a Linear equation	2	
7.M.LO8	Distinguishes quantities that are in proportion.	Compare, Discover	Comparison of the various ratios, To find if they are in proportion or not	DI	Ratio - equivalent ratio - simplest form - comparison of ratios	3	
7.M.LO9	Solves problems related to conversion of percentage to fraction and decimal and vice versa	Convert percentage into fractions and decimals		DI	Comparing quantities	4	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
7.M.LO10	Calculates profit/loss percent and rate percent in simple interest	Evaluate/Find	Solves problems on- profit -loss -profit percentage -loss percentage -simple interest	DI	Simple Interest - profit -loss - Simple interest rate	3	
7.M.LO11	Classifies pairs of angles based on their properties as linear, supplementary, complementary, adjacent and vertically opposite and finds value of the one when the other is given.	Classify	Identification/ Measurement of angles -linear -supplementary - complementary - adjacent -vertically opposite	DI	Parallel Lines - transversal -- linear - supplementary - complementary - adjacent - vertically opposite	4	
7.M.LO12	Verifies the properties of various pairs of angles formed when a transversal cuts two lines	Find alternate angles, corresponding angles and co-interior angles		DI	Understanding elementary shapes	3	
7.M.LO13	Finds unknown angle of a triangle when its two angles are known	Classify/Find	Classification of Triangles on the basis of -SIDES -angles	DI	Triangles -angle sum property - equilateral triangle - isosceles triangle -scalene triangle -acute angle triangle - right angled triangle -obtuse angled triangle	4	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
7.M.LO14	Explains congruency of triangles on the basis of the information given about them like (SSS, SAS, ASA, RHS)	Explain/Describe	Explanation of congruency of triangles on the basis of the information given about them like (SSS, SAS, ASA, RHS)		Congruence - Congruence of triangles - Criteria for congruency of triangles (SSS, SAS, ASA, RHS)	5	
7.M.LO15	Using rules and pair of compasses, construct a line parallel to a given line from a point outside it and triangles	Able to construct parallel lines using ruler and compass only	Types of triangles and parallel lines	DI to be followed by assignments	· Constructions	5	
7.M.LO16	Finds out approximate area of closed shapes by using unit square grid/ graph sheet	Finds out approximate area of closed shapes by using unit square grid/ graph sheet		DI	Mensuration	4	
7.M.LO17	Calculates area of square and rectangle by practical and theoretical method	Solve problems related to area and parameter of rectangle and square.	Define the area of rectangle and square.	DI	Parameter and area of rectangle and square.	6	Self-made video and voice recording , Project work.
7.M.LO17	Calculates areas of the regions enclosed in a rectangle and a square	Calculate, Evaluate	Calculation of areas of the regions enclosed in a rectangle and a square	DI	area of a rectangle -area of a square	2	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
7.M.LO18	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode	Find, Represent,	Collection and Arrangement of the raw data -to frequency table -Find mean, media, Mode, From daily life contexts	PBL	Mean-Median - Mode -Bar Graph - Construction of a bar graph	3	
7.M.LO19	Recognises variability in real life situation such as, variations in the height of students in her class and uncertainty in happening of events like throwing a coin	Recognise/ Interpret/Discover/ Experiment	Comparison of the probability of various events in real life situation	PBL	Probability	3	
7.M.LO20	Interprets data using bar graph e.g. consumption of electricity is more in winters than summer, runs scored by a team in first 10 overs etc.	Draw/Interpret	Representation and interpretation of data from -Bar graph	PBL	Bar Graphs	3	
Total Number of Lessons						**84**	

CLASS 8: MATHEMATICS

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.M.LO1	Generalises properties of addition, subtraction, multiplication and division of rational numbers through patterns	Find, generalise properties	addition, subtraction, multiplication and division of rational numbers	DI	Rational numbers and its properties	5	https://www.youtube.com/watch?v=SQ4cB9yXkHM
8.M.LO2	Finds out as many rational numbers as possible between two given rational numbers.	Find, show	rational numbers between rational numbers	DI	Representation of rational numbers in number line	4	https://ncert.nic.in/textbook.php?hemh1=1-16
8.M.LO3	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11	Solve, prove	divisibility rules of 2, 3, 5, 7, 9, 11	DI/ PBL	Divisibility rules	5	https://www.khanacademy.org/math/pre-algebra/pre-algebra-factors-multiples/pre-algebra-divisibility-tests/v/divisibility-tests-for-2-3-4-5-6-9-10
8.M.LO4	Finds squares, cubes and square roots and cube roots of numbers using different methods.	Finds	Square, perfect square, square roots, cube, perfect cube, cube roots, finding square roots and cube roots using factorisation method, finding square roots using Division Method	DI	Square and square roots, Cube and cube roots	6	https://youtu.be/T750L6Fcdfc

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.M.LO5	Solve Problems with integral exponents	Solve	Laws of exponents, simplification of Expressions	DI	Laws of Exponents To Simplify Expressions using different laws of exponents	3	
8.M.LO6	Solves puzzles and daily life problems using variables.	Solving puzzles and daily life problems using variables.		DI	Linear equations in one variable.	4	
8.M.LO7	Multiplies algebraic expressions e.g (2x-5) (3x2+7)	Expand binomial multiplied by monomial or a binomial	Binomials, monomials with examples	DI	Algebraic Expressions	5	
8.M.LO8	Uses various algebraic identities in solving problems of daily life	Apply, calculate, compute, Use	Standard Identities, Application of identities, factorization	DI	Standard Identities Application of identities Factorisation using standard identities Factorisation of quadratic trinomials $(a+b)^2$ $(a-b)^2$ $(a+b)^3$ $(a-b)^3$	5	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.M.LO9	Applies the concept of per cent in profit and loss situation in finding discount, VAT and compound interest e.g., calculate discount per cent when marked price and actual discount are given or finds profit per cent when cost price and profit in a transaction are given	Apply and solve problems on percentage, profit and loss, discount		DI	Comparing quantities	6	
8.M.LO10	Solve problems based on direct and inverse proportions	Solve problems by identifying which are based on direct and inverse proportions	Meaning of direct proportion and inverse proportion	DI/ PBL	Direct proportion Inverse proportion	5	
8.M.LO11	Solves problems related to angles of a quadrilateral using angle sum property	Solve problems based on angle sum property of a quadrilateral	Property of a quadrilateral	DI/ PBL	Quadrilateral Angles of a quadrilateral	5	Diksha
8.M.LO12	Verifies properties of parallelograms and establishes the relationship between them through reasoning	Justify, Examine, Explain, Define, Know and Name	Types of quadrilaterals, properties of different quadrilaterals	DI/ PBL	Types of quadrilaterals Properties of Parallelogram Properties of special Parallelograms Other types of	6	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
					quadrilaterals		
8.M.LO13	Represents 3D shapes on a plane surface such as sheet of paper, black board etc.	Explain 3 D shapes		DI	Visualizing solid shapes	2	
8.M.LO14	Verifies Euler's relation through pattern	Relationship of Euler's with different pattern		DI	Visualizing solid shapes	2	
8.M.LO15	Construct different quadrilaterals using compass and straight edge.	Construct	Construction of different quadrilaterals using compass and scale	DI/ PBL	Construction of Quadrilateral when 4 sides 1 diagonal are given 3 sides and 2 diagonals are given 3 sides and 2 included angles are given 4 sides and 1 angle are given		
8.M.LO16	Estimates the area of shapes like trapezium and other polygons by using square grid/ graph sheet and verifies using formulas.	Calculating perimeter and areas of different polygon.		DI	Perimeter and areas.	4	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.M.LO17	Find the area of a polygon.	Identify the different polygons. Calculate their areas using appropriate formulae. Apply in life experiences.	Triangle. Square. Rectangle. Parallelogram. Other polygonal figures. Correct units of area	DI, Activities	Area of polygons.	6	Monachaacademy.com
8.M.LO18	Find surface area and volume of cuboidal and cylindrical objects.	Identify the cuboidal, cylindrical shapes. Calculate numerical problems. Apply in life situations.	Cuboid. Cube. Cylinder. Formulae for related areas and volumes.	DI, Activities	Surface areas and volumes.	5	Monachaacademy.com
8.M.LO19	Draws and Interprets bar charts and pie charts	Draw, Interpret	Bar graphs, Histogram, Pie charts,	DI	Frequency Distribution Grouping of Data Histogram Bar graph Pie Chart	5	

LO Codes	Learning Outcomes	What students should be able to do	Knowledge / Concepts students need to know / understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
8.M.LO20	Makes hypotheses on chances of future events on the basis of its earlier occurrences or available data like, after repeated throws or dice and coins	determines	Probability, Random Experiment, Event, Sure event, possible outcomes,	DI	Probability of an event	4	https://youtu.be/TseGryr1JdE https://youtu.be/a6JGEEj-5Gc
Total Number of Lessons						**87**	

SCIENCE
CLASSES 6 - 8

CLASS 6: SCIENCE

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6. Sc.LO1	Identifies organisms such as flowers on the basis of observable features ie appearance, texture, function, aroma etc	Recognize and identify flowers on the basis of appearance, texture, function, aroma etc. Differentiate between self-pollination and cross pollination; insect pollinated flower and wind pollinated flower	Rough flowers, smooth flowers, scented flowers, non-scented flowers; pollination- self and cross; insect pollinated and wind pollinated flower. Explain how plant reproduce	DI / PBL through activity	Plant and animal life	4	www.pinterest.com
6.Sc.LO2	Differentiates materials and organisms, such as, fibre and yarn; tap and fibrous roots; electrical conductors and insulators; on the basis of their properties, structure and functions	Contrast the different types of roots on the basis of root system Differentiate: static friction, sliding friction, rolling friction Differentiate different types of machine	Root System Stopping, sliding and rolling of objects, friction Screw, inclined plane, wedge	DI	Root System Force Energy	2 2 3	www.sciencebuddies.com www.pinterest.com www.sciencebuddies.com
6.Sc.LO2	Differentiates materials and organisms, such as, fibre and yarn; tap and fibrous roots; electrical conductors and insulators; on the	Differentiate umbra and penumbra Differentiate permanent magnets and temporary magnets	Eclipse Magnets Types of fabrics, fibre to fabric Concepts of electrical conductors and insulators.	DI/ PBL	Light Magnetism History of clothing	1 1 6	www.pinterest.com www.sciencebuddies.com

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
	basis of their properties, structure and functions	Differentiate materials such as fibre Differentiate materials and organisms on the basis of their properties, structure and functions.	Differences between tap and fibrous roots.		Types of fabrics Fibre to fabric 1. Electricity 2. Plants and Animals Life	10	www.pinterest.com https://byjus.com/physics currentelectricity.
6.Sc.LO3	Classifies materials, organisms and processes based on observable properties, e.g., materials as soluble, insoluble, transparent, translucent and opaque; changes as can be reversed and cannot be reversed; plants as herbs, shrubs, trees, creeper, climbers; components of habitat as biotic and abiotic; motion as rectilinear, circular, periodic etc.	Understand the difference between soluble, insoluble transparent, translucent and opaque. Identify out the plant successions (Herbs, Shrubs and Trees, Climbers and Creepers) and interpret the components of Habitat components of habitat	The concept on these definitions are clear when cited with an example. Plant succession and the components of Habitat	DI/ PBL	Solutions plant Successions and Ecosystem	6	www.pinterest.com www.sciencebuddies.com

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.Sc.LO4	Conducts simple investigations to seek answers to queries, e.g., What are the food nutrients present in animal fodder? Can all physical changes be reversed? Does a freely suspended magnet align in a particular direction?	Define Nutrition and list out the components of nutrients Examine that force change state of motion Verify that light travels in straight lines	Nutrition and its importance Components of Nutrition Some physical changes can be irreversible too. e.g. burning of candle motion, Effects of Force, Properties of light	DI/ PBL	Nutrition Force Light energy	6	www.pinterest.com www.sciencebuddies.com
6.Sc.LO4	Conduct simple investigation on physical and chemical changes	Investigate changes	Physical change Reversible change Irreversible change Chemical change	PBL	Physical change Chemical change	3	https://youtu.be/yrQeSRg7ByA

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.Sc.LO5	Relates processes and phenomenon with causes, e.g., deficiency diseases with diet; adaptations of animals and plants with their habitats; quality of air with pollutants, etc. etc.	Interpret the deficiency diseases with respect to the diet and explain the adaptations of animals and plants with their habitat Observe that the quality of air has decreased because of mixture of many pollutants Demagnetisation	Nutrition and deficiency diseases and eco system The composition of air has changed when compared with 18th century and is not pure anymore and is believed to be a mixture of many constituents Magnet, magnetisation	DI DI DI/ PBL	Nutrition and Habitats and Ecosystem Composition of air Magnetisation	6 3 2	www.pinterest.com www.sciencebuddies.com
6.Sc.LO6	Explains processes and phenomenon, e.g., processing of plant fibres; movements in plants and animals; preparation of vermicompost,	Understand the technique of processing of plants and animals and demonstrate the process of Vermicomposting	Fibres and Waste Management	DI/ PBL	Fibres and Waste management	6	www.pinterest.com

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.Sc.LO6	Explains composition of air	Know that the air is a mixture of many gases and varies from place to place	The air is a mixture of many gases along with inert and noble gases.	DI/ PBL	Air	2	www.sciencebuddies.com
6.Sc.LO6	Explains rectilinear propagation of light	Demonstrate rectilinear propagation of light	Light travels in straight lines	DI/ PBL	Light	2	www.sciencebuddies.com
6.Sc.LO6	Explains formation of shadows;	Discuss and explain processes and phenomenon	Full moon, Crescent moon, gibbous moon	DI	Moon appends to change its shape everyday	2	Links to be shared from YouTube where related audio-visual will be helpful to students
6.Sc.LO7	Measures physical quantities and expresses in SI units, e.g., length	Measure length, time, temperature, area Convert physical quantity from one unit to another	Measurement of Length, time, temperature of water	DI/ PBL	Physical quantities and measurement	3	www.pinterest.com www.sciencebuddies.com
6.Sc.LO7	Measures physical quantities	Physical quantities	Method of measurement and the basic of S.I units in cm, m and km	DI and activity	S.I units of length	3	https://youtu.be/HuwklGpzqB8
6.Sc.LO8	Draws labelled diagrams / flow charts of organisms and processes, e.g., parts of flowers; joints; filtration; water cycle, etc.	Identify and construct the parts of flower Know the definition of water cycle and its process Draw labelled diagrams of 3	Flower parts Water exists in all three states and these three states are converted from one form to another	DI/ PBL	Plant life: Flowers	4	www.pinterest.com www.sciencebuddies.com

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
		types of machines Draw labelled diagram of pinhole camera			Energy, Light		
6.Sc.LO8	Draws labelled diagrams / flow charts of organisms and processes, e.g., parts of flowers; joints; filtration; water cycle, etc.	Demonstrate, Examples and Draw	Animals, plants, primary consumers, secondary and tertiary consumers	DI	Food chain	2	PDF file from digital Library sponsored by ADB in collaboration with the Government of Meghalaya to be shared discuss
6.Sc.LO9	Constructs models using materials from surroundings and explains their working, e.g., pinhole camera.	Construction of models	Light, shadow and reflection	DI/ Assignment	Sources of light Luminous and non-luminous objects Rectilinear propagation of light Shadows Reflection	5	https://www.youtube.com/watch?v=rMfZvzP1UQQ https://www.youtube.com/watch?v=IcNEfwNeZss
6.Sc.LO10	Applies learning of scientific concepts in day-to-day life, e.g., selecting food items for a balanced diet	Students need to apply learning of scientific concepts in day-to-day life.	Selection of food items for balanced diet. Method of separation of materials and mixtures: Solid-Solid mixture, Solid-Liquid mixture.	PBL	Balance Diet Separation of Substance	5	https://youtu.be/d09=Mnv2To
6.Sc.LO10	Applies learning of scientific concepts in day-to-day life	Summarize scientific concepts in day-to-day life.	Vaccinations, vaccines	DI	Preventing infections, disease	2	PDF file from digital Library sponsored by ADB in collaboration with

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
							the Government of Meghalaya to be shared
6.Sc.LO10	Applies learning of scientific concepts in day-to-day life	Illustrate scientific concepts in day-to-day life. Draw	Reproduce, Environment	PBL	Differentiate between Plants and animals	2	PDF file from digital Library sponsored by ADB in collaboration with the Government of Meghalaya to be shared
6.Sc.LO10	Applies learning of scientific concepts in day-to-day life	Illustrate scientific concepts in day-to-day life.	Light, Heat, Sound, Electrical	DI	Simple machines and the types	2	PDF file from digital Library sponsored by ADB in collaboration with the Government of Meghalaya to be shared
6.Sc.LO10	Suggesting ways to cope with heavy rain/ drought, etc	Give examples, discuss on scientific concepts in day-to-day life.	Bacteria and fungi, heavy rain/ drought, etc	DI	Importance of decomposer s,	2	PDF file from digital Library sponsored by ADB in collaboration with the Government of Meghalaya to be shared discuss
6.Sc.LO10	Using concepts of compass needle for finding directions;	Understand Concept of compass	Knowledge in finding direction using a compass`	DI and student activity	Concept of a compass needle	2	https://www.compassdude.com/compass-reading.php

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
6.Sc.LO11	Makes efforts to protect environment, e.g., minimising wastage of food, water, electricity and generation of waste; spreading awareness to adopt rain water harvesting; care for plants, etc.	Understand the waste management and design rain water harvesting the importance of rain water harvesting and that plants are important for us too Value the use of natural resources.	Sustainable development and rain water harvesting Value of natural resources.	DI/ PBL	Sustainable Development Wastage of food, water and its importance, garbage in garbage out.	11	www.pinterest.com www.sciencebuddies.com
6.Sc.LO12	Exhibits creativity in designing, planning, making use of available resources, etc.	Importance of available resources and its importance Demonstrate shadow and eclipse formation	Know that resources are limited and is necessary and important to take care of it. Shadow formation	DI/ PBL	Light	1	www.pinterest.com www.sciencebuddies.com
6.Sc.LO12	Exhibits creativity in designing planning, making use of available resources.	Inculcating critical thinking	Explain and sharing ideas.	DI/ PBL	Natural resources.	5	www.pinterest.com www.sciencebuddies.com
6.Sc.LO13	Exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices.	Inculcating values.	Explain and sharing values.	DI	Light, Shadow Reflection	4	www.sciencebuddies.com
Total Number of Lessons						**120**	

CLASS 7: SCIENCE

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
7.Sc.LO1	Identifies materials and organisms, such as, animal fibres; types of teeth; mirrors and lenses, on the basis of observable features, i.e., appearance, texture, functions, etc. Recognition on different type of teeth	Identify To draw	Properties and characteristics of: - animal fibres; types of teeth; mirrors and lenses. About the structure and function of teeth	DI/ PBL	Animal fibres; types of teeth; mirrors and lenses. Types of teeth	5	www.pinterest.com https://youtu.be/-Z3qHCCP_Y8 www.sciencebuddies.com https://youtu.be/8tDZrZ4aWim
7.Sc.LO2	Differentiates materials and organisms such as, digestion in different organisms; unisexual and bisexual flowers; conductors and insulators of heat; acidic, basic and neutral substances; images formed by mirrors and lenses, etc., on	Differentiate	digestion in different organisms; unisexual and bisexual flowers; conductors and insulators of heat; acidic, basic and neutral substances; images formed by mirrors and lenses	DI	Digestion in man, amoeba ruminants; unisexual and bisexual flowers; conductors and insulators; acidic, basic and neutral substances; images formed by mirrors and lenses	5	https://byjus.um/physics/concave.com https://youtu.be/heoijga5VT8 https://youtu.be/QZhAh1kKsfs https://youtu.be/WkNVAqmPLfw

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
	the basis of their properties, structure and function						
7.Sc.LO3	Classifies materials and organisms based on properties/characteristics, e.g., plant and animal fibres; physical and chemical changes	Classify	plant and animal fibres; physical and chemical changes	PBL	Plant and animal fibres; physical and chemical changes	2	https://youtu.be/-z3qHCCP_Y8
7.Sc.LO4	Conducts simple investigations to seek answers to queries, e.g., Can extract of coloured flowers be used as acid-base indicator? Do leaves other than green also carry out photosynthesis? Is white light composed of many colours?	Conducts simple investigations	natural acid- base indicators, photosynthesis; light spectrum	DI/ PBL	Natural acid- base indicators, photosynthesis; light spectrum	3	www.pinterest.com www.sciencebuddies.com
7.Sc.LO5	Relates processes and phenomena with causes, e.g., wind speed with air pressure; crops grown with types	Relate	Wind speed with air pressure, crops grown with types of soil; depletion of water table with human activities	DI	Wind speed and air pressure, crops grown with types of soil; depletion of water table with human activities	3	www.pinterest.com www.sciencebuddies.com

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
	of soil; depletion of water table with human activities, etc.						
7.Sc.LO6	Processing of animal fibres, Different modes of transfer of heat, Organs and systems in human and plants, Heating and magnetic effect of electric current	Explain and draw	Process involved in animal fibre production, Phenomenon of conduction and convection, Organs and systems in human and plants, the heating and magnetic effects of electric current	DI	Animal fibre, Transfer of heat, organs and systems in human and plants, Electric current and its effect	4	https://youtu.be/-23qHCCP_y8 https://youtu.be/o-fpp8y9jdM https://youtu.be/tiDFdtXDF7U www.sciencehowstuffworks.com
7.Sc.LO7	Writes word equation for chemical reactions, e.g., acid-base reactions; corrosion; photosynthesis; respiration, etc.	Write	word equation for chemical reactions of acid-base reactions; corrosion; photosynthesis; respiration,	DI	Word equation for chemical reactions of acid-base reactions; corrosion; photosynthesis; respiration,	4	https://youtu.be/KTlo-pGQhYA https://youtu.b/Im23nVpBObE https://youtu.be/koQb2e7BGL4
7.Sc .LO8	Measures and calculates e.g., temperature; pulse rate; speed of moving objects; time period of a simple pendulum, etc.	Measure and Calculate	temperature; pulse rate; speed of moving objects; time period of a simple pendulum	DI	Temperature; pulse rate; speed of moving objects; time period of a simple pendulum	4	Monachaacademy.com https://www.topperlearning.com https://youtu.be/ddHf-82N6QS https://youtu.be/pd2rVHpqZle https://youtu.be/3KH2HoqbbAO
7.Sc.LO9	Draws labelled diagrams/ flow charts e.g., organ	Draw	labelled diagram /flow chart of organ systems in human and plants	PBL	Human digestive system, circulatory system and	5	Htt://youtu.be/YYDyj5nxa-0

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
	systems in human and plants; electric circuits; experimental set ups; life cycle of silk moth, etc.		digestive system, circulatory system and excretory system; transportation in plants; electric circuits; experimental set ups; life cycle of silk moth		excretory system; transportation in plants; electric circuits; experimental set ups; life cycle of silk moth		
7SC.LO10	Plots and interprets graphs e.g., distance time graph	Plot and Interpret	distance time graph	DI	Motion	2	https://youtu.be/fXacFZq683c
7.Sc.LO11	Constructs models using materials from surroundings and explains their working, e.g., stethoscope; anemometer; electromagnets; Newton's colour disc, etc.	Construct	stethoscope; anemometer; electromagnets; Newton's colour disc	DI/ PBL	Heartbeat, wind speed, magnetic effect of current, light	4	www.sciencebuddies.com www.sciencehowstuffworks.com https://youtu.be/XLwtQoPeux8
7.Sc.LO12	Discusses and appreciates stories of scientific discoveries	Discuss and appreciate	stories of scientific discoveries	DI	Stories of scientific discoveries	2	
7 SC.LO13	Applies learning of scientific concepts in day-to-day life, e.g., dealing with acidity; testing and treating soil; taking measures to prevent corrosion;	Apply	Application of neutralisation reaction, testing and treating soil Prevention of corrosion; Vegetative propagation; Electricity; disaster preparedness; Water treatment	PBL	Application of neutralisation reaction, testing and treating soil Prevention of corrosion; Vegetative propagation; Electricity;	7	www.pinterest.com www.sciencebuddies.com

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
	cultivation by vegetative propagation; connecting two or more electric cells in proper order in devices; taking measures during and after disasters; suggesting methods for treatment of polluted water for reuse, etc.				disaster preparedness; Water treatment		
7.Sc.LO14	Makes efforts to protect environment, e.g., following good practices for sanitation at public places; minimising generation of pollutants; planting trees to avoid soil erosion; sensitising others with the consequences of excessive consumption of natural resources, etc.	Make effort	Cleanliness, sanitation and hygiene; planting trees to prevent soil erosion; conservation of natural resources	PBL	Cleanliness, sanitation and hygiene; planting trees to prevent soil erosion; conservation of natural resources	7	www.pinterest.com www.sciencebuddies.com

LO Codes	Learning Outcomes	What students should be able to do	Knowledge/ Concepts students need to know/ understand	DI/ PBL	Topics / Subtopics	No. of lessons	Links to online Learning resources
7.Sc.LO15	Exhibits creativity in designing, planning, making use of available resources, etc.	Exhibit creativity	designing, planning, making use of available resources	PBL	Designing, planning, making use of available resources	4	www.pinterest.com www.sciencebuddies.com
7.Sc.LO16	Exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices	Exhibit Values	values of honesty, objectivity, cooperation, freedom from fear and prejudices	PBL	Values of honesty, objectivity, cooperation, freedom from fear and prejudices	2	www.pinterest.com www.sciencebuddies.com
Total Number of Lessons						**63**	

CLASS 8: SCIENCE

LO Codes	Learning Outcome	What students should be able to do	Knowledge/Concept Areas students need to know/understand	DI/ PBL	Topics/Subtopics	No. of Lessons	Links to online Learning resources
8 SC.LO1	Differentiates materials and organisms, such as, natural and human made fibres; contact and non-contact forces; liquids as electrical conductors and insulators; plant and animal cells; viviparous and oviparous animals, on the basis of their properties, structure and functions.	Distinguish and list materials and organisms	Properties/Characteristics of natural and human made fibres; contact and non-contact forces; liquids as electrical conductors and insulators; plant and animal cells	PBL	Natural and human made fibres; contact and non-contact forces; liquids as electrical conductors and insulators; plant and animal cells	6	www.sciencebuddies.com www.pinterest.com
8.Sc.LO2	Classifies materials and organisms based on properties/ characteristics, e.g., metals and non-metals; *kharif and rabi crops*; useful and harmful microorganisms; sexual and asexual reproduction; celestial objects; exhaustible and inexhaustible natural resources, etc.	Identify and classify materials and organisms based on properties/ characteristics	Properties/ Characteristics of: - metals and non-metals; kharif and rabi crops; useful and harmful microorganisms; sexual and asexual reproduction; celestial objects; exhaustible and inexhaustible natural resources	DI	Physical properties of metals and non-metals Types of crops Microorganisms Modes of Reproduction Forest, Soil and Mineral	7	www.sciencebuddies.com www.pinterest.com DIKSHA https://www.youtube.com/watch?v=hrzV7olfDWU https://www.youtube.com/watch?v=P4qyl4aolS4

LO Codes	Learning Outcome	What students should be able to do	Knowledge/Concept Areas students need to know/understand	DI/ PBL	Topics/Subtopics	No. of Lessons	Links to online Learning resources
8.Sc.LO3	Conducts simple investigations to seek answers to queries, e.g., What are the conditions required for combustion? Why do we add salt and sugar in pickles and *murabbas*? Do liquids exert equal pressure at the same depth?	Conduct investigation and problem solving	Conditions required for combustion, Microorganisms Harmful organisms, Preservation of food, Pressure, Pressure exert by liquid	DI / PBL/ Activity based learning	Conditions required for combustion, Microorganisms Harmful organisms, Preservation of food, Pressure, Pressure exert by liquid	4	www.sciencebuddies.com www.pinterest.com https://www.youtube.com/watch?v=6g4tSSjpo6M https://www.youtube.com/watch?v=zlLpKzPz84Q
8.Sc.LO4	Relates processes in smog formation with the presence of pollutants in air, deterioration of monuments with acid rain	Relates processes and phenomenon	Smog formation; effects of acid rain on monuments, Air pollution, Air pollutants	DI	Smog formation; Acid rain, effects of acid rain on monuments, Air pollution, Sources of air pollution, Particulate pollutants,	4	www.nationalgeography.org www.sciencehowstuffworks.com https://www.youtube.com/watch?v=CWsGwtiiSio https://www.youtube.com/watch?v=MqHw1hMEkAQ

LO Codes	Learning Outcome	What students should be able to do	Knowledge/Concept Areas students need to know/understand	DI/ PBL	Topics/Subtopics	No. of Lessons	Links to online Learning resources
8.Sc.LO5	Explains processes and phenomenon, e.g., reproduction in human and animals; production and propagation of sound; chemical effects of electric current; formation of multiple images; structure of flame, etc.	Explain processes and phenomenon	Types of reproduction, fertilization Production and propagation of sound; chemical effects of electric current; formation of multiple images; structure of flame	DI	Sexual reproduction asexual reproduction budding fertilization Production and propagation of sound; chemical effects of electric current; formation of multiple images; structure of flame	7	youtube.com/watch?v=cRnpk twitter.com/fuseschool www.sciencebuddies.com www.pinterest.com www.thoughtco.com
8.Sc.LO6	Writes word equation for chemical reactions, e.g., reactions of metals and non-metals with air, water and acids	Write word equation systematically	Types of chemical reaction, chemical combination reaction Metals and non-metals Chemical properties of metals and non-metals	DI/ demonstration	Chemical combination reaction exothermic reaction endothermic reaction Metals and non-metals Chemical reaction of metals and non-metals with Air Water Acid	8	bit.ly/3coxJck bitly/3cfINMA https://youtu.be/278r0UaP1Zs https://youtu.be/NkBSUIf-yMc Diksha https://www.youtube.com/watch?v=ZcF8E8aAOGs
8.Sc.LO7	Measures angles of incidence and reflection	Measures angles	Reflection of light Laws of reflection of lights	DI/ Activity based learning	Reflection of light Laws of reflection of lights Activity to measures the angles	1	Diksha https://www.youtube.com/watch?v=C_rbq_l05WE

LO Codes	Learning Outcome	What students should be able to do	Knowledge/Concept Areas students need to know/understand	DI/ PBL	Topics/Subtopics	No. of Lessons	Links to online Learning resources
8.Sc.LO8	Prepares slides of microorganisms; onion peel, human cheek cells, etc., and describes their microscopic features	Students needs to prepares slides of microorganisms and describes their microscopic features	Slide preparation and microscopic features of microorganisms; onion peel, human cheek cells	DI/ PBL/ Activity based learning	Cell: Structure and Functions Slide preparation and microscopic features of: - microorganisms; onion peel, human cheek cells and describe their microscopic features	8	https://www.facebook.com/tharakaferna.. www.sciencebuddies.com www.thoughtco.com https://www.youtube.com/watch?v=cUkngmEb_DY https://www.youtube.com/watch?v=cmnhBJKfvNw https://www.youtube.com/watch?v=tmRa8uTG7eQ
8.Sc.LO9	Draws labelled diagram/ flow charts, e.g., structure of cell, eye, human reproductive organs; experimental set ups, etc.	Draw and explain diagram/ flow charts	Structure of cell, eye, human reproductive organs; experimental set ups	PBL	Structure of cell, eye, human reproductive organs; experimental set ups	2	www.sciencebuddies.com www.pinterest.com

LO Codes	Learning Outcome	What students should be able to do	Knowledge/Concept Areas students need to know/understand	DI/ PBL	Topics/Subtopics	No. of Lessons	Links to online Learning resources
8.Sc.LO10	Constructs models using materials from surroundings and explains their working, e.g., *ektara*, electroscope, fire extinguisher, etc.	Recognize and understand and construct models	Construct model fire extinguisher Ektara, electroscope, fire extinguisher	DI/ PBL	Construct model fire extinguisher Sound -ektara, static electricity - electroscope, combustion and flame -fire extinguisher	8	www.sciencebuddies.com www.pinterest.com www.thoughtco.com https://www.youtube.com/watch?v=hJFyI2iGWxs https://www.youtube.com/watch?v=61gr7vAkVAA
8.Sc.LO11	Applies concept of purifying water, segregating biodegradable and non-biodegradable waste, increasing crop production, using appropriate metals and non-metals for various purposes	Application of scientific concepts	Biodegradable, Non-biodegradable, Crop production, Biodegradable and non-biodegradable wastes, metals and non-metals, Friction, Adolescence	Inquiry Based Learning/ DI / Activity Based Learning	· Basic process of crop production Segregating biodegradable and non-biodegradable waste, Waste collection Waste segregation Uses of metals such as Iron, gold, silver, copper, aluminum, zinc, etc.	7	https://www.youtube.com/watch?v=XiRfrRsOkqg
8.Sc.LO12	Discusses and appreciates stories of scientific discoveries	Discuss and appreciate the beauty of science.	Discuss scientific discoveries and Scientific discoveries' stories	DI self -study Classroom discussion	Stories of scientific discoveries Discovery of cell Discovery of radium etc	10	https://www.youtube.com/watch?v=jSW226wRgQU

LO Codes	Learning Outcome	What students should be able to do	Knowledge/Concept Areas students need to know/understand	DI/ PBL	Topics/Subtopics	No. of Lessons	Links to online Learning resources
8.Sc.LO13	Make effort to protect environment by controlling uses of fertilizers and pesticides, suggesting ways to cope with environmental hazards	Make effort to protect environment	Efforts to use resources judiciously- to restore and conserve ecosystems, efforts to manage stress through self-help approaches Environment Fertilizers pesticides Environmental hazard	DI	Need to restore and conserve the Ecosystem, How to manage stress, Environment, Uses of fertilizers and pesticides Harmful effect of fertilizers and pesticides Environmental hazards pollution	3	https://youtu.be/UUu6xzciVxo https://www.youtube.com/watch?v=TjbxOEEOCh0 https://www.youtube.com/watch?v=B3E5egAa0Do
8.Sc.LO14	Exhibits creativity in designing, planning, making use of available resources, etc.	Know the importance of resource and its correct usage Exhibit creativity in designing, planning	Know that resources are exploitable and correct usage of it is necessary Creativity and designing using scientific approach	DI/ Activity Based Learning	Resources Creativity and designing using scientific approach	6	www.sciencebuddies.com www.pinterest.com www.thoughtco.com https://www.youtube.com/watch?v=xEAOvFG1AmM https://www.youtube.com/watch?v=KAE4s39j8JI https://www.youtube.com/watch?v=sv0z1onbDPE

LO Codes	Learning Outcome	What students should be able to do	Knowledge/Concept Areas students need to know/understand	DI/ PBL	Topics/Subtopics	No. of Lessons	Links to online Learning resources
8.Sc.LO15	Exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices	Inculcating and exhibiting values	Values of honesty, objectivity, cooperation, freedom from fear and prejudices	DI/ PBL	Values of honesty, objectivity, cooperation, freedom from fear and prejudices	6	https://www.youtube.com/watch?v=yLzcsxo-fhs https://www.youtube.com/watch?v=hkUSjaGiGzk https://www.youtube.com/watch?v=1XDpa2HLXV0
Total Number of Lessons						**87**	

SOCIAL SCIENCE
CLASSES 6 - 8

CLASS 6: SOCIAL SCIENCE

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/Sub-topics	No. of lessons	Links to online Learning resources
6.SS.LO1	Distinguishes between stars, planets and satellites. Eg. Sun, Moon and Earth.	Distinguish	Celestial bodies such as galaxies, satellites, stars, sun, moon, etc. Solar System.	DI/ PBL	Different types of Galaxies. Sun-A Star and other Stars. Our Solar System: The Sun and the Planets. The Earth and its main feature. Satellites. Moon. Other Celestial bodies	6	https://youtu.be/gOolt8Q3hG8-link https://youtu.be/WShDP_DCqvA-link https://youtu.be/RJ2bQWH6GCM-link
6.SS.LO2	Recognises that the earth is a unique celestial body due to existence of life, zones of the earth with special reference to biosphere	Recognise	Our home planet – the Earth - Three realms of the Earth – land (Lithosphere), water (Hydrosphere) & Air (Atmosphere) - Biosphere	DI/ PBL	The Earth our home The three realms of the Earth Biosphere	2	https://www.youtube.com/watch?v=YnRtKB1FBfs https://www.youtube.com/watch?v=bKRhbINRgP4 https://www.youtube.com/watch?v=EovyAEl5Uwk
6.SS.LO3	Demonstrate day and night and season	Demonstrate	The different elements of weather	PBL	Weather and climate: Air temperature Atmosphere pressure Condensation Precipitation	2	https://rsgr.in/natw7-003

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/Sub-topics	No. of lessons	Links to online Learning resources
6.SS.LO4	Locates directions on the flat surface and continents and oceans on the world map.	Locate and Draw	Importance of globes and maps. Atlas, sketches and plan.	DI/ PBL	Globes Maps Types of maps Atlas Essential elements of maps Sketches Plans	4	https://youtu.be/V2T5QYbvpBC-link https://youtu.be/5qlf7Oe2AaO-link https://youtu.be/16pJBM-qB-WK-link https://youtu.be/RSCOlvSHOKc-link
6.SS.LO5	Identifies Latitudes and Longitudes, eg. Poles, Equator, Tropics, States/UTs of India and other neighbouring countries on globe and world map.	Identify Recognizes Describes	Latitudes with heat zones, Longitudes with time. Essential terms such as Equator, Prime Meridian, Greenwich Mean Time, Standard Time, etc.	DI	Latitudes Features of Latitudes Important Latitudes Heat zones Longitudes Features of Longitude Longitude and time International date line (IDL) Tropics, States/UTs of India and other neighboring countries	4	• https://youtu.be/WPMZIJ-_a6W-link • https://youtu.be/MjDqhLUzCpE-link
6.SS.LO6	Locates physical features of India such as mountains, plateaus, plains, rivers, desert etc. on the map of India	Locate (on map)	Physical features of India: mountains, plateaus, plains, rivers, desert etc. on the map of India	DI/ PBL	The Himalayas, the Ganga basin, the Brahmaputra valley, Thar desert, Peninsular plateau, Western and Eastern Ghats, Lakshadweep & Andaman and Nicobar Islands	3	https://www.youtube.com/watch?v=SzbES1MKguA

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/Sub-topics	No. of lessons	Links to online Learning resources
					Himalayan rivers & Peninsular rivers		
6.SS.LO7	Draws a neighbourhood map showing scales, direction and features with the help of conventional symbols.	Draw Illustrate	scales, direction and features, conventional map symbols, legends, etc.	PBL	Globes Maps Types of maps Atlas Essential elements of maps Sketches Plans	2	https://gisgeography.com/map-legend/
6.SS.LO9	Identifies different types of sources (archaeological literary etc) and describe their use in reconstruction of history period	Recognizes Describes	Different types of Sources (archeological literary etc) Reconstruction of history	DI	What is history Time and Dates Sources of History Archaeological sources	4	httpd://youtu be /jfcEeSLPBZs
6.SS.LO10	Locates important historical sites, places on an outline map of India.	Recognise the important sites	Students needs to know the different sites and places	PBL	Archaeology	3	http://www.magnetbrains.com/course/c
6.SS.LO11	Recognizes distinctive features of early human cultures and	Recognize and Explain	Indus Valley Civilization and its sites. Great Bath, Citadel, Town Planning,	DI	What is civilization? Common features of ancient river valley civilization Reasons of	3	https://youtu.be/JSYUFqze-vg-link https://youtu.be/OAag244-dOW-link https://youtu.be/KhDY4KJ

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/Sub-topics	No. of lessons	Links to online Learning resources
	explain their growth,		Seals, Scripts and Decline		development of civilization along river banks Various features of Indus Valley Civilization Decline of Indus Valley Civilization		UVCO-link
6 SS.LO12	Lists out significant contributions of important kingdoms, dynasties with examples viz., Ashokan inscriptions, Gupta coins, Ratha temples by Pallavas etc.	List, Recall, Explain	Chandragupta Maurya, Chanakya, Ashoka, Bindusara, Royal monk, Dharma, Arthashastra, Indica, Megasthenes, peasants, artisans	DI/ PBL	Chandragupta as Emperor, Ashoka the great, Features of the Mauryan Age.	5	https://www.youtube.com/watch?v=NFkAmC5Huso
6.SS.LO13	Explain broad development during the ancient stage, the beginning of agriculture, the first cities on the Indus, etc. and relate the developments occurring in one place to	Recognize and Explain	Indus Valley Civilization and its sites. Great Bath, Citadel, Town Planning, Seals, Scripts and Decline	DI	What is civilization? Common features of ancient river valley civilization Reasons of development of civilization along river banks Various features of Indus Valley Civilization Decline of Indus Valley Civilization	6	• https://youtu.be/JSYUFqze-vg-link • https://youtu.be/OAag244-dOW-link • https://youtu.be/KhDY4KJ UVCO-link

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/Sub-topics	No. of lessons	Links to online Learning resources
	another.						
6 SS.LO14	Describes issues, events, personalities mentioned in literary works of the time	Describe, Give examples, Name	Kalidas, Rigveda, Mahabhashya, Arthashastra	DI/ PBL	Kalidas, Rigveda, Mahabhashya, Arthashastra Events personalities mentioned in literary work of the times	2	https://www.youtube.com/watch?v=DwRTefPNYOQ
6 SS.LO16	Outlines India's significant contributions in culture and science viz. astronomy, medicine, mathematics, and knowledge of metals, etc.	Outline, List, give examples, memorize	Aryabhatta, Sushruta, Science, Medicine, Astronomy	DI/ PBL	Art and Architecture, Science, Medicine, Astronomy.	3	https://www.youtube.com/watch?v=DwRTefPNYOQ
6 SS.LO17	Synthesises information related to various historical developments	Understand	Manuscript Coins, inscription, oral tradition, major group of human species.	DI/ Group Activity	Manuscript Coins Inscription Oral tradition	2	https://youtu.be/vm23Gfvdddw
6 SS.LO18	Analyses basic ideas and values of various religions and systems of thought during	Illustrate	Vedas, Hinduism,	DI/ PBL	Who were the Aryans, life of Aryans, religious life, political life	3	https://www.youtube.com/watch?v=jtjmlRc-ibM

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/Sub-topics	No. of lessons	Links to online Learning resources
	ancient period						
6.SS.LO19	Describes various forms of human diversity around him/her.	Participate in discussions on the concepts of diversity. Prepare posters with different drawings and pictures of the different festivals, food, dress, religions etc of India. Visits museums to see the different cultural displays of the different states of India. Conduct debate on the topic 'Unity in Diversity	Define the term 'diversity', citing relevant examples. Identify and recognize the various kinds of diversity prevalent around us. Explain how unity in diversity makes India a special country. State and give reasons why we should feel proud to be Indians.	DI/ PBL	What is diversity. Diversity brings variety. Diversity in India. How did India become diverse: physical diversity, religious diversity, linguistic diversity. Unity in Diversity Be a responsible Indian.	4.	https://youtu.be/X3KKhnvHDQM
6.SS.LO20	Develops a healthy attitude towards various kinds of diversity	Participate in discussions on the concepts of diversity. Prepare posters with	Define the term 'diversity', citing relevant examples. Identify and recognize the various kinds of	DI/ PBL	What is diversity. Diversity brings variety. Diversity in India. How did India become diverse:	4	https://youtu.be/X3KKhnvHDQM

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/Sub-topics	No. of lessons	Links to online Learning resources
	around him/her.	different drawings and pictures of the different festivals, food, dress, religions etc of India. Visits museums to see the different cultural displays of the different states of India. Conduct debate on the topic 'Unity in Diversity	diversity prevalent around us. Explain how unity in diversity makes India a special country. State and give reasons why we should feel proud to be Indians.		physical diversity, religious diversity, linguistic diversity. Unity in Diversity Be a responsible Indian.		
6.SS.LO21	Recognizes Various forms of discrimination and understands the nature and sources of discrimination.	Participates in discussions on the concepts of discrimination. Observe examples of fair/unfair treatments to people meted in the family, school, society etc. Perform role	Define the terms 'prejudice' and 'stereotypes'. Explain how prejudice leads to discrimination. Differentiate between diversity and inequality. Discuss how the Constitution directs us to respect diversity.	DI/ PBL	What is Prejudice Prejudice and discrimination. Various kinds of prejudice. How to overcome prejudice. Stereotypes. Children who are special. Fighting for Equality. The Constitution and respect for Diversity.	4	https://youtu.be/mWWiRFC9wml https://youtu.be/gt4Sk_NRJ_c

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/Sub-topics	No. of lessons	Links to online Learning resources
		play with songs and poems about issues such as prejudice, discrimination and inequality.					
6.SS.LO22	Differentiates between equality and inequality in various forms to treat them in a healthy way	Recognize and Differentiate	Terms in Civics such as discrimination, diversity, inequality, prejudice and stereotypes.	DI	What is diversity? Prejudice – how and why? Creating stereotypes Inequality and discrimination Ambedkar and his struggle against discrimination	5	https://youtu.be/FBxhdLzDO34-link https://youtu.be/of1Mhl3bu-4-link https://youtu.be/6h8OkzTHg7U-link
6.SS.LO23	Describes the role of government, especially at the local level.	Summarize	Municipality, municipal council, wards, blocks, drainage, mayor, commissioner	DI/ PBL	Nagar panchayats, composition of Municipality, functions of Municipal corporation	2	https://www.youtube.com/watch?v=aD9NZNSmne8

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/Sub-topics	No. of lessons	Links to online Learning resources
6.SS.LO23	Describes the role of government especially at the local level.	Study from the text and directly observe functioning of a Gram Panchayat or a municipality/ corporation (according to the place a student lives). Understand the role of governance in society.	Explain the term 'Panchayati Raj'. List and explain the structure, composition and function of the Gram Panchayat, Block Samiti and Zila Parishad. Discuss the role played by women in the Panchayat.	DI/ PBL		4	https://youtu.be/9-DPhJIoS4M https://youtu.be/4xNsxwXjkvo
6.SS.LO24	Identifies various levels of the Government- Local, Union and State.	Recognise the federal forms of Government.	Need to know the level of Governments.	DI	What is Government? Panchayati Raj System.	2	http://www.magnetbrains.com/course/c
6 SS.LO26	Describes factors responsible for availability of different occupations undertaken in rural and urban areas	Describe, Give examples	Livelihood, Farming, Occupation, Cultivation, Animal Husbandry, Daily Wage labourers, Call centre, License, Migration	DI/ PBL	Rural Occupation, Urban Occupation	3	https://www.youtube.com/watch?v=KLuzyeW-v2I
Total Number of Lessons						**78**	

CLASS 7: SOCIAL SCIENCE

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
7.SS.LO1	Identifies major layers of the earth's interior, rock types, layers of the atmosphere in a diagram	Use diagrams, charts, models to understand the major layers of the earth and collect samples and identify different types of rock	The core, the mantle, the crust. Rocks, types of rocks. Rock cycle	PBL	Inside the restless earth - Structure of the earth - The core, the mantle, the crust (the continental crust and the oceanic crust) Rocks - Igneous rocks (Intrusive rocks and extrusive rocks) Sedimentary rocks- Metamorphic rocks Formations of rocks Uses of rocks Rock cycle	4	https://www.youtube.com/watch?v=uMMC00Owm-0
7.SS.LO2	Locates distribution and extent of different climatic regions on the world map or globe.	Distinguish between weather and climate. Identify and locate the different climatic regions on earth.	Difference between weather and climate. Heat zones on earth. Temperature; factors influencing it. Atmospheric Pressure and winds; factors affecting it. Different Pressure Belts. Planetary Winds. Humidity and Rainfall; factors affecting it. Oceans	DI	Weather, Climate, Oceans, Heat zones, Temperature, Atmospheric Pressure and winds, Pressure Belts, Planetary Winds, Humidity and Rainfall	4	ü https://unacademy.com/lesson/course-overview/AAWPT6JW

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
			and its importance.				
7SSLO3	Explains preventive actions to be undertaken in the event of disasters, e.g., earthquake, floods, droughts.	Remember, recall and apply the preventive measures in class presentation, mock-drills and in the event of real disasters.	Causes and preventive measures in the event of earthquakes, floods, droughts, etc.	PBL	Earthquakes, Floods, Droughts, Landslides, Cyclones. Preventive Measures.	4	ü http://ncert.nic.in/textbook/textbook.htm?gess2=3-9
7SSLO4	Describes formation of landforms due to various factors	Use diagrams/ models/ visuals/ audio visual materials for understanding interior of the earth, formation of different types of landforms, movements of water in the ocean, etc	The earth's movements what causes Endogenic movements Types of plate movements Earthquakes Volcanoes	PBL	Movements of the Earth - The Earth's movement - Endogenic movements - Exogenic movements – What causes endogenic movements? - Continental drift, plate tectonics - Types of plate movement - Divergent movement - Convergent movement – Lateral shipping -	5	https://www.youtube.com/watch?v=T5Cr2_LV6C4

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
					Mountain building - Folding, faulting - Earthquake - Effects of earthquakes - Volcanoes - Types of Volcanoes: - Active, Dormant, Extinct		
7.SS.LO5	Explains composition and structure of the atmosphere.	Explain the composition and structure of the atmosphere; its importance to life.	Layers of atmosphere; their function and importance.	DI	Composition of atmosphere, Its Structure and different layers.	3	
7.SS.LO6	Describes different components of the environment and the interrelations hip between them	Discuss and share their observations and experiences regarding various aspects of the environment components of natural and human made environment and how they relate on each other	Definition of environment Natural environment Human environment Realms of natural environment Interdependence	PBL	Our environment Natural environment Biotic and abiotic Human environment Four realms of natural environment Lithosphere, Atmosphere, Hydrosphere, Biosphere Interdependence Ecosystem	4	https://www.youtube.com/watch?v=6U-PiLVSHq4

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
7.SS.LO7	Analyses factors contributing to pollution in their surroundings and lists measures to prevent it.	Identify the activities causing pollution and suggest measures to minimize or stop them.	Definition of pollution and its types. Factors causing it. Remedial measures Alternate sources of energy.	DI	Pollution and its types. Causes of pollution, Green Energy. Measures to mitigate it.	3	ü https://unacademy.com/lesson/pollution-and-its-control-measures/BKSY7ABH
7.SS.LO8	Reasons and factors leading to diversity in flora and fauna, e.g., climate, landforms, etc.	Identify the factors leading to diversity in flora and fauna. Explain the importance and role of biodiversity in environment.	Factors causing diversity in nature's flora and fauna. Importance of various species and their function in maintaining balance in ecosystem.	DI	Climate, Landforms, Ecosystem, Ecological balance. Importance of biodiversity.	3	ü http://ncert.nic.in/textbook/textbook.htm?gess2=4-9ü http://ncert.nic.in/textbook/textbook.htm?gess2=6-9ü http://ncert.nic.in/textbook/textbook.htm?gess2=3-9
7.SS.LO9	Reflects on the factors leading to disasters and calamities.	Explain measures to mitigate dangers in natural disasters; ways to prevent calamities causes by human activities.	Natural and human activity-related disasters. Factors causing them. Ways of preventing them and mitigating the risk factors in case of natural calamities.	DI	Disasters: its types., Factors causing it, Preventive measures, Ways of mitigating risk factors.	2	ü http://ncert.nic.in/textbook/textbook.htm?gess2=4-9

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
7.SS.LO10	Shows sensitivity to the need for conservation of natural resources- air, water, energy, flora and fauna	Set an example to their junior students through activities contributing to conservation of natural resources such as the habit of avoiding wastage of water, electricity, food, nurturing plants, etc. *Present a speech on need for conservation of natural resources. *Write a paragraph on the same.	Importance of conservation of natural resources. Measures to achieve it.	PBL	Natural resources, Importance of its conservation. Measures to achieve it.	2	ü http://ncert.nic.in/textbook/textbook.htm?gess2=6-9
7.SS.LO11	Draw interrelations hip between climatic regions and life of people living in different climate regions of the world including	Discuss similarities and differences in the life of people in different climatic regions of the world including India	Amazon Basin Ganga Brahmaputra Temperate Grasslands Deserts Land, climate, natural vegetation, wildlife, people settlements, economy	DI	Life in the tropical and subtropical regions Amazon Basin (South America) Land, climate, natural vegetation, wildlife, people settlements, economy Ganga Brahmaputra	4	https://www.youtube.com/watch?v=HY6X1l0YgcE / https://www.youtube.com/watch?v=TaMJCgkmsWE / https://www.youtube.com/watch?v=DvNznKrqcvI

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
	India				(India) Land, climate, natural vegetation, wildlife, people settlements, economy Life in temperate grasslands The Prairies (North America) The Veld (Southern Africa) Life in the deserts The Sahara (Northern Africa) Hot desert Ladakh (India) Cold desert		
7.SS.LO12	Analyses factors that impact development of specific regions	Identify factors influencing the development of specific regions. Explain how they work in tandem leading to such developments.	Landforms. Climate. Natural resources. People.	DI	Landforms. Climate. Natural resources. People.	2	ü http://ncert.nic.in/textbook/textbook.htm?gess2=3-9ü http://ncert.nic.in/textbook/textbook.htm?gess2=7-9

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
7.SS.LO13	Provides example of sources used to study various periods in history.	Identify different sources of history available in books/local environment e.g; manuscript/maps/illustration/paintings/historical monuments/films/ biographical dramas/tele-serials/fold dramas and interpret these to understand the time.	Explain the causes for the transition from regional kingdoms to great empires. Describe the main features of Medieval Period in India. List and discuss the new terms used during the Medieval Period for India and their cultural and political results. Discuss and explain the major sources of medieval Indian history.	DI/ PBL	From Regions to Empires. Economic changes, new regional division, new religious traditions. Major Sources Coins and other artefacts, monuments and buildings, inscriptions and edicts, chronicles, accounts and other literary sources. Importance of the various sources.	4	https://youtu.be/VFOF1wlf0bU
7.SS.LO14	Relates key historical developments during Medieval Period occurring in one place with another.	Prepare a timeline to trace important developments during this period. Reflect on the changes in society during Medieval Period and compare with present day.	Identify the major political developments between 700CE – 1200CE. Discuss the causes of the tripartite struggle and list the kingdoms involved in that struggle. Describe the Rajputs and Ghaznavids.	DI/ PBL	New Dynasties The Pala, The Gurjara Pratiharas, The Rashtrakutas, Tripartite struggle. The Rajputs of North India, The Cholas of the Tamil region: successors of Vijayalaya, administration, public works, architecture.	4	https://www.youtube.com/watch?v=TIP5t5QEDXs

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
			Explain how the Chola Empire became famous in history. Discuss the major achievements of the Chola emperors.		Important Features. Rise of the warrior chiefs and warlords, practice of land grants, wars for resources. Turkish Invasions Muhammad Ghuri and the battles of Tarain.		
7.SS.LO15	Explains the relationship between livelihood patterns and the geographical condition of the area inhabited, e.g., tribes, nomadic pastoralists and banjaras.	Collect material and pictures on anyone of the following given tribes. And to write their language, dress, food, deity and culture.	The Tribal	DI	Developments in tribal communities.	2	
7.SS.LO16	Analyses socio-political and economic changes during medieval period	Reflect on the changes in society during medieval period and compare with present day time.	Vibrant urban centers	DI	Cities, Traders and Craftspeople.	3	https://www.youtube.com/watch?v=TIP5t5QEDXs

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
7.SS.LO17	Analyses administrative measures and strategies for military control adopted by different kingdoms, e.g, the Khaljis, Tughlugs, Mughals etc	Describe and explain	Administration and life during Sultanate period and Mughals in India	DI	The Khaljis, Tughlugs, Mughals etc Sultanate of Delhi Mughals in India	3	https://www.youtube.com/watch?v=xdrnNjbDP30 https://www.youtube.com/watch?v=yxb4uj4CiWM
7.SS.LO18	Draws comparisons between policies of different Rulers	Draws comparisons	Policies of different rulers	DI	The Khaljis, Tughlugs, Mughals etc Sultanate of Delhi Mughals in India	3	
7.SS.LO19	Describes distinctive developments in style and technology used for construction of temples, tombs and mosques with examples.	Collect pictures of few famous Mughal monuments in India and stick them in a scrapbook, then divide them into categories like Temple architecture,	Historical Monuments	DI	Architecture as Power	2	

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
		Islamic architecture and so on.					
7.SS.LO20	Analyse factors which led to the emergence of new religious ideas and movements (Bhakti and Sufi)	Analyse factors contributing to the emergence of new religious ideas and movements	Major religious cults, doctrines and sects that were popular during the Medieval Period. 'bhakti'. The two trends of religious worship that are observed in the Indian Subcontinent. Bhakti or Sufi saints & Indian society and religion.	DI/ PBL	Bhakti mean, Bhakti Saints. Alvars and Nayanars, Marathi Bhakti poets, Sufism, Bhakti in North India, Bhakti movement	2	https://youtu.be/o5Yy1rQCkfl
7.SS.LO21	Draws inferences from poetry of bhakti and sufisaints about existing social order	Divide the class into groups of four. Search for and collect interesting legends and poems about Bhakti or Sufi Saints.	Poetry of bhakti and Sufi saints about existing social order.	DI	Religious ideas and movements	3	
7.SS.LO22	Explains the significance of equality in a democracy.	Participate in a discussion on the concepts of democracy and equality.	Recall and explain the historical background of democracy. Describe the	DI/ PBL	History of Democracy. Freedom and Democracy. Goals of	4	https://youtu.be/iurhMy1l7EU

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
		Recognize and identify the different sections or groups in a society or community. Realize the injustice and inequality in a democracy. Perform a roleplay with songs and poems on issues such as equality and democracy. Prepare posters with pictures and drawings on rights to equality in a democracy.	elements of democracy that makes it the most popular form of government throughout the world. Discuss the importance of the rule of law in a democracy.		Democracy. Equality is the Foundation of Democracy Political equality, Religious equality, Economic equality, Social equality. Injustice Around The World. Aung San Suu Kyi, Martin Luther King, Jr.		

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
7.SS.LO23	Distinguishes between political equality, economic equality and social equality.	Participate in a discussion on the concepts of democracy and equality. Recognize and identify the different sections or groups in a society or community. Realize the injustice and inequality in a democracy. Perform roleplay with songs & poems on issues such as equality and democracy. Prepare posters with pictures and drawings on rights to equality in a democracy.	Recall and explain the historical background of democracy. Describe the elements of democracy that makes it the most popular form of government throughout the world. Discuss the importance of the rule of law in a democracy.	DI/ PBL	History of Democracy. Freedom and Democracy. Goals of Democracy. Equality is the Foundation of Democracy Political equality, Religious equality, Economic equality, Social equality. Injustice Around The World. Aung San Suu Kyi, Martin Luther King, Jr.	4	https://youtu.be/iurhMy1l7EU
7.SS.LO24	Interprets social, political and economic issues in one's own	Identify five countries with social, political and economic issues very different from ours	Social, political and economic issues in countries in the South East Asian region, issues in respective regions	DI	Social, political and economic issues in countries in the South East Asian region, issues in respective regions	3	

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
	region with reference to the right to equality	with reference to right to equality	with reference to right to equality.		with reference to right to equality.		
7.SS.LO.25	Differentiates between Local government and State government.	Participate in a discussion on the three organs of the State government: legislature, executive, judiciary. - Directly observe the functioning of the State Legislative Assembly and State Legislative Council (when houses are in session).E5 - Organize a mock election and Youth assembly.	Describe the structure of the State government. Explain Legislative Assembly and Legislative Council. List and explain the role of Chief Minister and the Council of Ministers in a State government. Identify and explain the role of a Governor	DI/ PBL	State Legislature Composition of the state legislature: the legislative assembly, qualifications for the member ship of state legislatures. Duration of the state legislatures. Functions of the state legislatures. Functions of Making Laws. The State Executive The Chief Minister, The council of ministers, The Governor: eligibility, functions. Administration of the Union Territories.	4	https:/youtu.be/foXJjRn8Qa4
7.SS.LO26	Describes the process of election to the	Class project: Mock election inside the class.	Process of election.	Active Learning	Election	3	

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
	legislative assembly						
7.SS.LO27	Locates one's own constituency on assembly constituency map of State/UTs and names local MLA	On an outline map of respective state, locate the parliamentary as well as the assembly constituency of respective place.	Learn to locate the respective constituencies and know the respective constituency MlA.	PBL	Constituencies and MLA.	3	
7.SS.LO28	Analyse the causes and consequences of disadvantages faced by women of different sections of the society.	Participate in discussions on the concepts of gender and the role it plays in our lives. - Perform a roleplay with songs and poems on issues of discrimination faced by girls and women. - Express views through descriptive and critical writings about the standards of living of girls and women in rural and urban areas. -	Define gender and describe how its role creates inequality in society. - Explain why women are given different roles in society and treated differently in most societies. - Identify the disadvantages faced by women of different sections of the society.	DI/ PBL	Gender. - Factors That Create Gender Inequality: family, school, religion, media. - Winds of Change: Women and education. - Equal Rights for Women.	5	https://youtu.be/fjTRkp7vlo0

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
		Make oral and written presentations about women who work for a better society.					
7.SS.LO29	Identifies women achievers in different fields from various regions of India	Express views, through descriptive and critical writing, about standards of living of girls and women in rural and urban areas.	Associated with women achievement.	DI	Women achievements in society.	3	
7.SS.LO30	Illustrates contribution of women to different fields with appropriate examples	Make oral and written presentations about women who worked for a better society.	Contribution of a women to the society.	DI	Role played by gender.	3	
7.SS.LO31	Explains the functioning of media with appropriate examples from newspaper.	Participate in a discussion on the concept of media. - Debate about the role of media. - Express views through descriptive and critical writing the	Define and know the term media. - List and identify the various agencies of media. - Explain the importance of media in a democracy. - Explain the role of newspaper in our	DI/ PBL	Media ~ Kinds of media: Print media, Electronic media. - Media and Public Opinion. -Ethics and Principles of the Media: Authenticity, Honesty,	4	https://youtu.be/QLn0yE2mhwg

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
		role of media in today's time.	freedom struggle.		Sensitivity, Impartiality. Right to Information Act.		
7.SS.LO32	Creates an advertisement	Organize awareness drives in one's own locality about sanitation, public health and road safety.	Understand markets and their relation to everyday life.	DI	Advertising	3	
7.SS.LO33	Differentiates between different kinds of markets	Differentiate between kinds of markets, classify, identify differences	Various markets and their function to link scattered producers and consumers.	DI	Markets around us	3	
7.SS.LO34	Traces how goods travel through various market places	Observe local markets and shopping complexes, retrace, record	How goods travel through various market places	Undertake case studies and project about local markets and shopping complexes	A wholesale market	3	
Total Number of Lessons						**111**	

CLASS 8: SOCIAL SCIENCE

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
8.SS.LO1	Classifies different types of Industries based on raw materials size and ownership	Classifies	Agrobased Industries, Minerals – based Industries, Pastoral – based Industries, Marine – based Industries & Forest – based Industries. Private Sector, Public Sector, Joint Sector, Co-operative sector and Multinational Corporations	DI/ PBL	Industries based on Raw materials Industries on the basis of ownership	2	. https://www.youtube.com/watch?v=r2Zccwk1CRo https://www.youtube.com/watch?v=dSidVckxKvM
8.SS.LO2	Describes major crops, types of farming and agricultural practices in her/his own area/state	Describe	Cereals, pulses, cash crops & fibre crops, beverages Shifting Agriculture, Subsistence Agriculture, Intensive farming, extensive farming, Plantation agriculture, Commercial agriculture, Day & wet land farming	DI/ PBL	Cereals, pulses, cash crops & fibre crops, beverages Shifting Agriculture, Subsistence Agriculture, Intensive farming, extensive farming, Plantation agriculture, Commercial agriculture, Day & wet land farming Types of farming & agricultural practices in India Agricultural practices with	4	. https://www.youtube.com/watch?v=IrwRM244lPQ&feature=youtu.be . https://www.youtube.com/watch?v=o8Q2WDaZ6KE&feature=youtu.be https://www.youtube.com/watch?v=DD94v48XLFE

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
					special reference to Meghalaya		
8.SS.LO3	Interprets the world map for uneven distribution of population	Interprets the world map	Uneven distribution of population	DI/ PBL	Uneven distribution of population	2	https://www.youtube.com/watch?v=X-eNEStD6GI
8.SS.L0.4	Describe cause of forest fire, land slide, Industrial disaster and their risk, reduction measures.	To identify the types of natural and manmade disaster their causes and measures.	To understand the causes and effect of Natural and manmade hazards.	DI/ PBL	causes and effect of Natural and manmade hazards risk, reduction measures/ mitigation strategies	3	https://en.m.wikipedia.org>wiki . https://www.youtube.com/watch?v=Ob3jMK9zT9E
8.SS.L0.5	Locate important distribution of minerals, E.g., Coal and mineral oil on the world map	Locate important places of distribution of minerals on the World map.	The countries state and capitals.	PBL	Topic-Minerals and power resources. Subtopic- Types of minerals.	4	https://www.nextgurukul.in>class8
8.SS.LO5	Locates distribution of important minerals, e.g. coal and mineral oil on the World Map	Locate (on maps)	Distribution of important minerals such as coal & mineral oil	DI/ PBL	Distribution of coal Distribution of mineral oil	2	. https://www.youtube.com/watch?v=zmtC_iSarRk . https://www.youtube.com/watch?v=aJ45TdtKQck
8.SS.LO6	Analyses uneven distribution of natural and human made resources on the	Analyse, Compare and correlate the controlling factors	Uneven distribution of natural and human made resources on the earth Different landforms,	DI	Natural resources & Human-made resources Their uneven distribution,	3	. https://www.youtube.com/watch?v=kNBUEFr9G3U· https://www.youtube.com/watch?v=p-46RP8xt8M

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
	earth		climate, type of resources, level of development, technological advancement and population are the reason for uneven distribution of resources.		landforms, climate, type of resources, level of development, technological advancement and population are the reason for uneven distribution of resources.		https://www.youtube.com/watch?v=eCrpRKppwGY
8.SS.LO7	Justifies judicious use of natural resources such as water, soil, forest, etc. to maintain development in all areas	Develop projects and oral presentation group wise on conservation of natural and human made resources and its needs. Citing illustration from their immediate surrounding as well as the state, national and global level too.	Conservation of resources, Sustainable development, Water scarcity, Contour farming, Terrace farming, Mulching, Wind breaks, Intercropping, Crop rotation, drip irrigation, Extinct species, Endangered species Threatened species, Sanctuaries, National Parks,	DI/ PBL	Natural resources, Conservation of resources, Sustainable development, Water scarcity, Contour farming, Terrace farming, Mulching, Wind breaks, Intercropping, Crop rotation, drip irrigation, Extinct species, Endangered species Threatened species, Sanctuaries, National Parks,	2	https://www.youtube.com/watch?v=01giR60nEcw

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
8.SS.LO8	Analyses the factors due to which some countries are known for production of major crops, eg. Wheat, rice, cotton, jute, etc. and locates these countries on the World Map	Analyse & locate (on maps)	Rainfall, soil & temperature Technologies, High-yielding variety of seeds, organic and chemical fertilizers and modern farm	DI/ PBL	Physical factors Agricultural development Location of agricultural regions on the World map	3	. https://www.youtube.com/watch?v=4OYMXCNeeCc . https://www.youtube.com/watch?v=XSVA_dAXILo . https://www.youtube.com/watch?v=J1PiYL05ucU
8.SS.LO9	Draws interrelationship between types of farming and development in different regions of the World	Brings out	Interrelationship between types of farming and development in different regions of the World HYV seeds, technologies, organic & chemical fertilizers, Modern farm equipment, Irrigation	DI	Agriculture, farming, types of agriculture and farming Interrelationship between types of farming- Development of farming in different regions of the world	4	https://www.youtube.com/watch?v=U1zKiAp9B04
8.SS.LO10	Draws bar diagram to show population of different countries/India/states distinguishes the 'modern period' from the 'medieval' and the 'ancient' periods through the use of	Distinguishes the 'Modern Period' from the 'Medieval' and the 'Ancient' Periods through the use of sources, nomenclatures used for various regions of the Indian	Understand transition to the Modern Period, periodization, mapping and sources	DI	History- When, Where and How?	4	http://www.nationalmuseumindia.gov.in

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
	sources, nomenclatures used for various regions of the Indian subcontinent and the broad developments	subcontinent and other broad developments.					
8.SS.LO11	Explains how the East India Company became the most dominant power in India	Describe how the Company was transformed from a trading company to a political power; Discuss British policies of expansion in India	Motives of the East India Company; Battle of Plassey; Subsidiary Alliance; Doctrine of Lapse; Dual government in Bengal; wars with Mysore; wars with the Marathas.	DI	Carnatic wars; British policies of expansion; wars with the Indian rulers	3	https://www.historyextra.com/period/tudor/the-east-india-company-how-a-trading-corporation-became-an-imperial-ruler/ https://www.youtube.com/watch?v=_vNiYCcxOc0
8.SS.LO12	Explains the differences in the impact of colonial agrarian policies in different regions of the country like the 'indigo rebellion'	*Describe the effects of the colonial agrarian policies on the indigo cultivators of Bengal. *Cite reasons for the Indigo rebellion.	Impact of the British land revenue policies; commercialization of agricultural economy; suppression of the Indigo rebellion	DI	Indigo revolt/rebellion; Land revenue settlements; effects of the land revenue systems	2	https://www.youtube.com/watch?v=WIQLS3C5hLM https://www.youtube.com/watch?v=aymmEYOcims

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
8.SS.LO13	Describes the forms of different tribal societies in the 19th century and their relationship with the environment.	Able to explain Tribal life during British rule and Tribal revolts.	Recognize the disruption of customary tribal rights over forest land and forest products under the British rule.	DI	Colonialism and Tribal Societies	4	
8.SS.LO14	Explains the policies of the colonial administration towards the tribal communities	State the effects of colonial rule on tribal societies;	Forest laws implemented by the colonial rulers on tribal areas; changes in Tribal societies under British rule	DI	Tribal societies under British rule; impact of British rule on tribal societies	2	
8.SS.LO15	Explains the origin, nature and spread of the Revolt of 1857 and the lessons learned from it	Identify the causes of the Revolt; Locate the main centres of the Revolt (on a map); Name the main actors of the Revolt; Discuss the changes in the structure of the colonial government after 1857.	Causes of the Revolt; spread of the Revolt; Suppression of the Revolt; changes after the Revolt	DI	Actors of the Revolt; causes; main centres; Result of the Revolt	2	https://www.youtube.com/watch?v=ataW-bloIEY
8.SS.LO16	Analyses the pre-existing urban centres and handicraft industries and the development of	Identify how the flourishing Indian crafts and industries had reached the verge of	Understand how the unfair economic policies of the British led to the collapse of Indian industries.	DI	Crafts and Industries	2	https://www.youtube.com/watch?v=PAHG_xhwdSM https://www.youtube.com/watch?v=B2bujUDxNoY

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
	new urban decline of centres and industries in India during the colonial period	collapse					
8.SS.LO17	Explains the institutionalization of the new education system in India	Describe the changes that took place in the educational system during British Rule; Identify who were the Orientalists and the Anglicists;	English education in India; New rules and regulations; Indian response; Orientalist-Anglicist conflict.	DI	Introduction of modern education in India; Orientalist/ Anglicist s' perception of education for Indians; Indian response	3	https://www.youtube.com/watch?v=M58izexZkTY https://www.youtube.com/watch?v=w5ts1nX94M4
8.SS.LO18	Analyses the issues related to caste, women, widow remarriage, child marriage, social reforms and the laws and policies of colonial administration towards these issues	Examine the important reform movements started in the 18th & 19th centuries; Write the contributions of Raja Ram Mohan Roy, Swami Vivekananda, Ishwar Chandra Vidyasagar	Indian society in the 18th c.- condition of women; caste system; Beginning of the Indian reform movements.	DI	Indian society in the 18th c.; Indian reform movements (18-19thc.); women and reform; caste and social reform	3	

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
8.SS.LO19	Outlines major developments that occurred during the modern period in the field of arts	Identify, Outline	Major developments that occurred during the modern period in the field of arts.	DI	Changes in the Arts, the Printing Press in India, growth of the Indian Press, literature, painting, music and dance.	3	https://www.tallenggestore.com
8.SS.LO20	Outlines the course of the Indian national movement from the 1870's till independence	Trace, outline, bring out List, Compare Explain	The various phases of the Indian National Movement from the 1870s; the methods of struggle adopted by the Moderates, Radicals and Revolutionaries; the role of Gandhiji in the National Movement; How India finally got independence in 1947.	DI	Rise if nationalism in India; the Movement under the Moderates, Radicals; Gandhi- Non Cooperation, Civil Disobedience movements; Quit India movement; Transfer of power 1946- 47.	4	https://www.youtube.com/watch?v=tc2x8fonfgI
8.SS.LO21	Analyses the significant developments in the process of nation building	Explain the partition of India, integration of the Princely states and the making of the constitution. Reorganization of states.	Understand after independence, India was faced with numerous challenges such as riots in the aftermath of the partition, integration of the princely states and the reorganization of states.	DI	India after Independence, as riots in the aftermath of the partition, integration of the princely states and the reorganization of states	5	

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
8.SS.LO22	Interprets social and political issues in one's own region with reference to the Constitution of India illustrates the Fundamental Rights and the Fundamental Duties with appropriate examples	Cite the laws in the Constitution pertaining to the social and political issues in the region. Narrate how Fundamental Rights and Duties affect their lives; point out those rights and duties involved in them.	Necessity of laws. Constitution and its importance.	DI	The Constitution Importance of Laws.	3	http://ncert.nic.in/textbook/textbook.htm?hess3=1-10 ü https://main.sci.gov.in/constitution
8.SS.LO23	Applies the knowledge of the Fundamental Rights to find out about their violation, protection and promotion in a given situation (e.g., Child Rights)	Applies the knowledge of the Fundamental Rights	Fundamental Rights violation, protection and promotion; National Commission for Protection of Child Rights (NCPCR), State Commission for Protection of Child Rights (SCPCR), RTE Act 2009	PBL	Fundamental Rights violation, protection and promotion; National Commission for Protection of Child Rights (NCPCR), State Commission for Protection of Child Rights (SCPCR), RTE Act 2009	2	https://www.ncpcr.gov.in/
8.SS.LO24	Differentiates between State government and Union government	Explain the difference between State and Central Government	Parliamentary System Composition of Legislature and Executive	DI	Parliamentary System	2	ü http://ncert.nic.in/textbook/textbook.htm?hess3=1-10 ü http://ncert.nic.in/textbook/pdf/jess402.pdf

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
8.SS.LO25	Describes the process of election to the Lok Sabha	Explain the election process to Lok Sabha in speech or writing.	Composition of Lok Sabha Qualifications to be eligible for its membership. Term and Function. Process of election to it.	PBL	Composition of Lok Sabha. Qualifications to be eligible for its membership. Term and Function. Process of election to it.	2	http://youtu.be/XgY5vGa3VpO
8.SS.LO26	Locate one's own constituency on map of state/UT and names local MP	Locate on a map one's own constituency; Identify one's own representative to the Lok Sabha	Members of the Lok Sabha; parliamentary constituencies in Meghalaya	PBL	Indian Parliament	1	http://ceomeghalaya.nic.in/gis-map/00-ac-map-meghalaya.pdf
8.SS.LO27	Describes the process of making a law. (e.g., Domestic Violence Act, RTI Act, RTE Act)	Explain how a law is made.	Law making process.	DI	Law making process.	3	ühttp://ncert.nic.in/textbook/textbook.htm?hess3=4-10ühttps://mhrd.gov.in/rte http://youtu.be/sf7tbnXjwRE ncert.nic.in mhrd.gov.in

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
8.SS.LO28	Describes the functioning of the judicial system in India by citing some landmark cases	Explain how Indian Judicial System functions with example of some landmark cases.	The Judiciary: its composition and functions. Impartiality of the Judiciary.	DI	The Judiciary The Supreme Court; its jurisdiction The High Court Subordinate Courts Impartial Judiciary	3	ühttp://ncert.nic.in/textbook/textbook.htm?hess3=5-10 ühttps://main.sci.gov.in/constitution
8.SS.LO29	Demonstrates how to file a First Information Report (FIR)	Illustrate the complete process of filing a FIR.	Police-Court relationship. FIR; its procedure and contents. Procedure in case of refusal of FIR by Police. Public prosecutor's role.	Field Trip, PBL	Process of filing a FIR.	3	http://ncert.nic.in/textbook/textbook.htm?hess3=6-10
8.SS.LO30	Analyses the causes and consequences of marginalization faced by disadvantaged sections of one's own region	Analyse, Recognise Describe Evaluate	Social marginalization: meaning of the term 'marginalised'; the various forms of social inequalities in Indian society;its causes; different forms of social inequalities; condition of the marginalized groups; Constitutional provisions for marginalized groups.	DI	Meaning, Causes of marginalization; inequality in the social structure; Adivasis and the Freedom movement; multi-culturalism in the Constitution. Examples of marginalised groups in the society.	3	https://www.youtube.com/watch?v=XeL7gBT3M8o

LO Codes	Learning Outcomes	What students should able to do	Knowledge/ Concept areas students need to know/ understand	DI/ PBL	Topics/ Sub-topics	No. of lessons	Links to online Learning resources
8.SS.LO30	Analyses the causes and consequences of marginalisation faced by disadvantaged sections of one's own region	Identify the disadvantaged sections in one's region; explain the causes and consequences of their marginalization.	Definition of marginalization. Disadvantaged sections	DI	Marginalization.	2	ü http://ncert.nic.in/textbook/textbook.htm?hess3=7-10
8.SS.LO31	Identifies the role of Government in providing public facilities such as water, sanitation, road, electricity etc., and recognises their availability	Point out, lists, explain the role of Government in the provision of public facilities.	Government's function in infrastructure and services development. Public facilities such as water, sanitation, road, electricity etc.,	DI	Government's Economic Functions. Government's function in infrastructure and services development. Public facilities such as water, sanitation, road, electricity etc.,	3	ü http://ncert.nic.in/textbook/textbook.htm?hess3=9-10
8.SS.LO32	Describes the role of Government in regulating economic activities.	Bring out, describe, Illustrate the role of Government in economic activity regulation.	Economic functions of the Government.	DI/ PBL	Government's Economic Functions.	2	http://ncert.nic.in/textbook/textbook.htm?hess3=10-10 https://www.unomaha.edu/college-of-business-administration/center-for-economic-education/teacher-resources/6-8/what-are-the-economic-functions-of-government.pdf
Total Number of Lessons						**95**	

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Smt. Margrette Majaw
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Smt. Aidalinsha Nongsiej
Smt. Banda Marbaniang
Smt. Aidalinsha Nopngsiej
Smt. Banda Marbaniang
Smt. Aidalinsha Nongsiej
Smt. Ananda L.Kynshi
Smt. Banda Marbaniang
Smt. Ananda L.Kynshi
Smt. Aidalinsha Nongsiej
Smt. Banda Marbaniang
Smt. Margrette Majaw
Shri. S.K Hujon
Shri. Chesterfield Nongkynrieh
Mairang Pres Hr Sec School
Bada Marbaniang
Lad Skhem Wahlang
Iba kordor War
Weldon Mynsing
Kynshi Hr Sec School
Mr German Nongrum
Mrs. Badahunsha Kharnaior:
Mrs Dariboklin Nongsiej:
Mrs.Nanda Pyngrope
Mr.Kynjohshaphrang Diengdoh:
Jesterwel Kharkylliang:
Mrs. Ralinda L Mawnai
St Thomas Hr Sec School
Ms Evangaline Shylla
Ms Kerphirity Nongkseh
Ms Patricia Ryntathiang
Sir Paul F Nongrum
Ms Queenda Kharmawlong
Ms Ida Diana Lynthong