



CODED LEARNING OUTCOMES

Developed by the National
Council for Educational Research
& Training (NCERT)



Coded by the Directorate
of Educational Research
& Training (DERT)

26 March, 2021



Foreword

The Learning Outcomes (LOs) were developed by the National Council of Educational Research and Training (NCERT), New Delhi in the year 2017 with the objective of enhancing the quality of learning in schools.

The LOs are competency based and are linked to curricular expectations and pedagogical processes. They are well defined criteria which guide both learners and teachers and ensure accountability of different stakeholders. LOs indicate the minimum levels a learner should acquire at every grade in the different subject areas. The LOs also address equity issues in learning and make it possible to track the progress of learners regularly. The LOs cover both the Elementary and Secondary stage.

From the academic session 2017-18, these specific benchmarks related to learning levels of students were incorporated in the RTE Act 2009 by amending the RTE Rules 2010 and then in the Meghalaya RTE State Rules vide notification No. EDN(RTE)/196/2012/179 Dt. 21 June 2019, which now make their implementation mandatory.

However, during the COVID 19 lockdown period, it was difficult to refer to LOs during the online course discussions with teachers and teacher educators on writing instructional objectives and during content analysis exercises, since the original LO documents do not use codes for identifying Learning Outcomes. As a result, the Directorate felt the need to assign unique codes to all the LOs from Class I to Class X in all subjects except for Hindi, Urdu and Sanskrit.

This edition of the Coded LO document has been updated and includes the final version of LOs for secondary stage brought out by the NCERT in December 2019. It is recommended that teachers and PLCs make use of the document for unit/lesson planning, preparing assessment plans and tracking student progress. Further, these LOs should be used to during the four/six-week Catch-Up Program to cover previous year's essential LOs to address learning gaps.



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26 March 2021



Coding Key

The Learning Outcomes (LOs) have been coded taking into consideration the Class, Subject and Learning Outcome (LO) number. The first letter indicates the Class, the second indicates the subject, the third and fourth letters indicate the Learning Outcome and the number at the end indicates the LO number. This is applicable to all classes and the codes of the subjects are given as under:

For example:

1.M.LO1 implies Class I, Mathematics and LO number 1

Code	Subject
E	English
M	Mathematics
EVS	Environmental Studies
Sc	Science
SS	Social Science
HE	Health & Physical Education
AEV	Art Education (Visual Art)
AEM	Art Education (Music)
AED	Art Education (Dance)
AET	Art Education (Theatre)



Contributors

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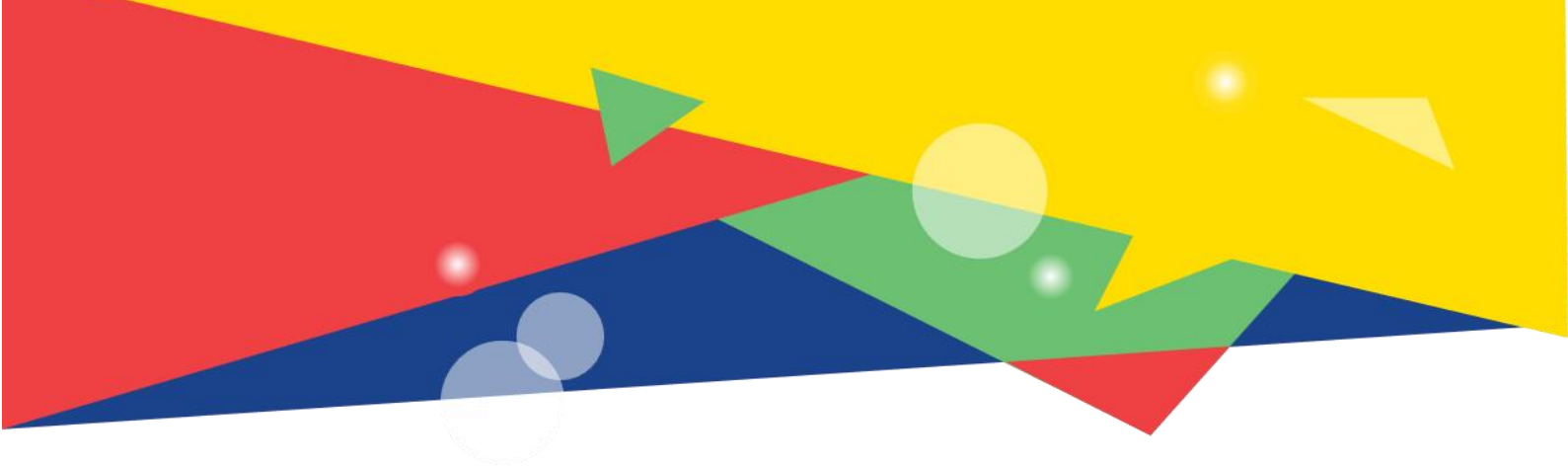
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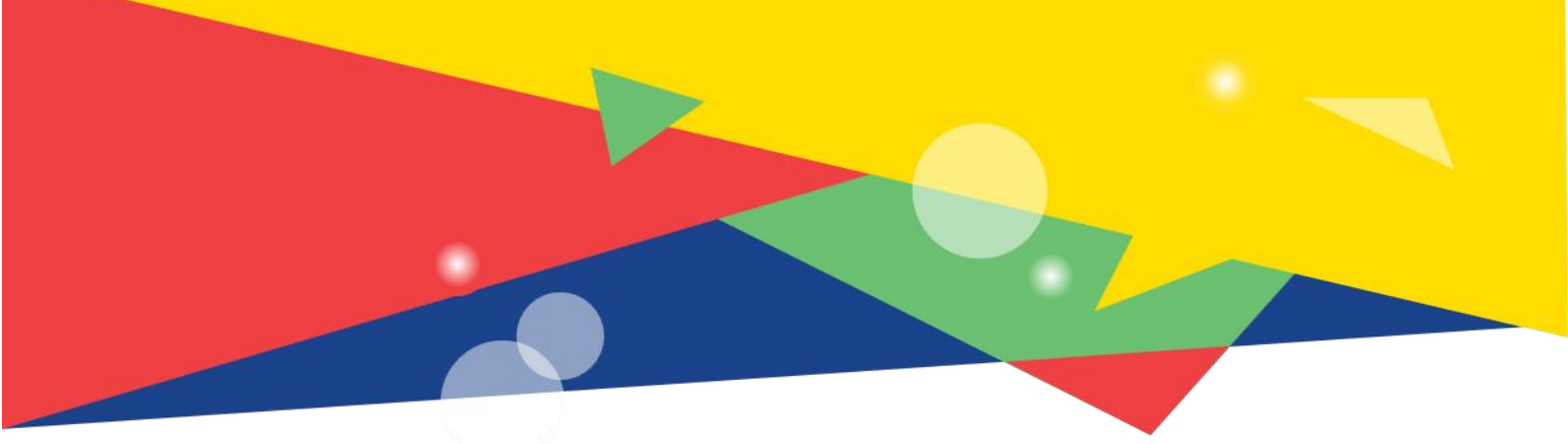
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Contents

Foreword.....	i
Coding Key	ii
Contributors	iii
Class I (English).....	1
Class II (English).....	2
Class III (English).....	3
Class IV (English)	4
Class V (English)	5
Class VI (English)	6
Class VII (English)	8
Class VIII (English)	9
Class IX (English)	11
Class X (English)	13
Class I (Mathematics)	16
Class II (Mathematics)	17
Class III (Mathematics)	18
Class IV (Mathematics)	19
Class V (Mathematics)	21
Class VI (Mathematics)	22
Class VII (Mathematics)	24
Class VIII (Mathematics)	25
Class IX (Mathematics)	27
Class X (Mathematics)	28
Class III (EVS)	29
Class IV (EVS)	31
Class V (EVS).....	32
Class VI (Science)	34
Class VII (Science)	35
Class VIII (Science)	37



Class IX (Science)	38
Class X (Science)	41
Class VI (Social Science).....	44
Class VII (Social Science).....	46
Class VIII (Social Science).....	48
Class IX (Social Science).....	50
Class X (Social Science).....	55
Class IX (Health & Physical Education).....	60
Class X (Health & Physical Education).....	61
Class IX (Art Education).....	62
Art Education (Visual Art).....	63
Art Education (Music).....	64
Art Education (Dance).....	65
Art Education (Theatre).....	67
Class X (Art Education).....	67
Art Education (Visual Art).....	67
Art Education (Music).....	69
Art Education (Dance).....	71
Art Education (Theatre).....	72

Class I (English)

Codes	Learning Outcomes
1.E.LO1	Associates words with pictures
1.E.LO2	Names familiar objects seen in the pictures
1.E.LO3	Recognises letters and their sounds A—Z
1.E.LO4	Differentiates between small and capital letters in print or Braille
1.E.LO5	Recites poems/rhymes with actions
1.E.LO6	Draws, scribbles in response to poems and stories
1.E.LO7	Responds orally (in any language including sign language) to comprehension questions related to stories/poems
1.E.LO8	Identifies characters and sequence of a story and asks questions about the story
1.E.LO9	Carries out simple instructions such as 'Shut the door', 'Bring me the book', and such others
1.E.LO10	Listens to English words, greetings, polite forms of expression, simple sentences, and responds in English or the home language or 'signing' (using sign language)
1.E.LO11	Listens to instructions and draws a picture
1.E.LO12	Talks about self /situations/ pictures in English
1.E.LO13	Uses nouns such as 'boy', 'sun', and prepositions like 'in', 'on', 'under', etc.
1.E.LO14	Produces words with common blends like "br" "fr" like 'brother', frog' etc.
1.E.LO15	Writes simple words like fan, hen, rat etc.

Class II (English)

Codes	Learning Outcomes
2.E.LO1	Sings songs or rhymes with action
2.E.LO2	Responds to comprehension questions related to stories and poems, in home language or English or sign language, orally and in writing (phrases/ short sentences)
2.E.LO3	Identifies characters, and sequence of events in a story
2.E.LO4	Expresses verbally her or his opinion and asks questions about the characters, Storyline, etc., in English or home language.
2.E.LO5	Draws or writes a few words or short sentence in response to poems and stories.
2.E.LO6	Listens to English words, greetings, polite forms of expression, and responds in English/home language like 'How are you?', 'I'm fine, thank you.' etc.
2.E.LO7	Uses simple adjectives related to size, shape, colour, weight, texture such as 'big', 'small', 'round', 'pink' 'red' 'heavy' 'light' 'soft' Etc.
2.E.LO8	Listens to short texts from children's section of newspapers, read out by the teacher
2.E.LO9	Listens to instructions and draws a picture
2.E.LO10	Uses pronouns related to gender like 'his/her/, 'he/she', 'it' and other pronouns like 'this/that', 'here/there' 'these/those' etc.
2.E.LO11	Uses prepositions like 'before', 'between" etc.
2.E.LO12	Composes and writes simple, short sentences with space between words.

Class III (English)

Codes	Learning Outcomes
3.E.LO1	Recites poems individually/ in groups with correct pronunciation and intonation.
3.E.LO2	Performs in events such as role play/ skit in English with appropriate expressions
3.E.LO3	Reads aloud with appropriate pronunciation and pause
3.E.LO4	Reads small texts in English with comprehension i.e., identifies main idea, details and sequence and draws conclusions in English
3.E.LO5	Expresses orally her/his opinion/understanding about the story and characters in the story, in English/ home language.
3.E.LO6	Responds appropriately to oral messages/telephonic communication
3.E.LO7	Writes/types dictation of words/phrases/sentences
3.E.LO8	Uses meaningful short sentences in English, orally and in writing, uses a variety of nouns, pronouns, adjectives and prepositions in context as compared to previous class
3.E.LO9	Distinguishes between simple past and simple present tenses
3.E.LO10	Identifies opposites like 'day/night', 'close-open', and such others
3.E.LO11	Uses punctuation such as question mark, full stop and capital letters appropriately
3.E.LO12	Reads printed scripts on the classroom walls: poems, posters, charts etc.
3.E.LO13	Writes 5-6 sentences in English on personal experiences/events using verbal or visual clues
3.E.LO14	Uses vocabulary related to subjects like Maths, EVS, relevant to class III.

Class IV (English)

Codes	Learning Outcomes
4.E.LO1	Recites poems with appropriate expressions and intonation.
4.E.LO2	Enacts different roles in short skits
4.E.LO3	Responds to simple instructions, announcements in English made in class/school
4.E.LO4	Responds verbally/in writing in English to questions based on day-to-day life experiences, an article, story or poem heard or read
4.E.LO5	Describes briefly, orally/in writing about events, places and/or personal experiences in English
4.E.LO6	Reads subtitles on TV, titles of books, news headlines, pamphlets and advertisements
4.E.LO7	Shares riddles and tongue-twisters in English
4.E.LO8	Solves simple crossword puzzles, builds word chains, etc.
4.E.LO9	Infers the meaning of unfamiliar words by reading them in context
4.E.LO10	Uses dictionary to find out spelling and meaning
4.E.LO11	Writes/types dictation of short paragraphs (7-8 sentences)
4.E.LO12	Uses punctuation marks appropriately in reading aloud with intonations and pauses such as question mark, comma, and full stop
4.E.LO13	Uses punctuation marks appropriately in writing such as question mark, comma, full stop and capital letters
4.E.LO14	Writes informal letters or messages with a sense of audience
4.E.LO15	Uses linkers to indicate connections between words and sentences such as 'First', 'Next', etc.

4.E.LO16	Uses nouns, verbs, adjectives, and prepositions in speech and writing
4.E.LO17	Reads printed script on the classroom walls, notice board, in posters and in advertisements
4.E.LO18	Speaks briefly on a familiar issue like conservation of water; and experiences of day to day life like visit to a zoo; going to a mela
4.E.LO19	Presents orally and in writing the highlights of a given written text / a short speech /narration / video, film, pictures, photograph etc.

Class V (English)

Codes	Learning Outcomes
5.E.LO1	Answers coherently in written or oral form to questions in English based on day-today life experiences, unfamiliar story, poem heard or read.
5.E.LO2	Recites and shares English songs, poems, games, riddles, stories, tongue twisters etc, recites and shares with peers and family members.
5.E.LO3	Acts according to instructions given in English, in games/sports, such as 'Hit the ball!' 'Throw the ring.' 'Run to the finish line!' etc.
5.E.LO4	Reads independently in English storybooks, news items/ headlines, advertisements etc. Talks about it, and composes short paragraphs
5.E.LO5	Conducts short interviews of people around him e.g interviewing grandparents, teachers, school librarian, gardener etc.
5.E.LO6	Uses meaningful grammatically correct sentences to describe and narrate incidents; and for framing questions
5.E.LO7	Uses synonyms such as 'big/large', 'shut/close', and antonyms like inside/outside, light/dark from clues in context.
5.E.LO8	Reads text with comprehension, locates details and sequence of events

5.E.LO9	Connects ideas that he/she has inferred, through reading and interaction, with his / her personal experiences
5.E.LO10	Takes dictation for different purposes, such as lists, paragraphs, dialogues etc.
5.E.LO11	Uses the dictionary for reference
5.E.LO12	Identifies kinds of nouns, adverbs; differentiates between simple past and simple present verbs
5.E.LO13	Writes paragraphs in English from verbal, visual clues, with appropriate punctuation marks and linkers
5.E.LO14	Writes a 'mini biography' and 'mini autobiography'
5.E.LO15	Writes informal letters, messages and e-mails
5.E.LO16	Reads print in the surroundings (advertisements, directions, names of places etc), understands and answers queries
5.E.LO17	Attempts to write creatively (stories, poems, posters, etc)
5.E.LO18	Writes and speaks on peace, equality etc suggesting personal views
5.E.LO19	Appreciates either verbally / in writing the variety in food, dress, customs and festivals as read/heard in his/her day-to day life, in storybooks/ heard in narratives/ seen in videos, films etc.

Class VI (English)

Codes	Learning Outcomes
6.E.LO1	Participates in activities in English like role play, group discussion, debate, etc.
6.E.LO2	Recites and shares poems, songs, jokes, riddles, tongue twisters, etc.
6.E.LO3	Responds to oral messages, telephonic communication in English and communicates them in English or home language.
6.E.LO4	Responds to announcements and instructions made in class, school assembly, railway station and in other public places

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
6.E.LO6	Reads to seek information from notice board, newspaper, Internet, tables, charts, diagrams and maps etc.
6.E.LO7	Responds to a variety of questions on familiar and unfamiliar texts verbally and in writing
6.E.LO8	Uses synonyms, antonyms appropriately deduces word meanings from clues in context while reading a variety of texts
6.E.LO9	Writes words / phrases / simple sentences and short paragraphs as dictated by the teacher
6.E.LO10	Uses meaningful sentences to describe /narrate factual / imaginary situations in speech and writing
6.E.LO11	Refers to dictionary to check meaning and spelling, and to suggested websites for information
6.E.LO12	Writes grammatically correct sentences for a variety of situations, using noun, pronoun, verb, adverb, determiners, etc.
6.E.LO13	Drafts, revises and writes short paragraphs based on verbal, print and visual clues
6.E.LO14	Writes coherently with focus on appropriate beginning, middle and end in English / Braille
6.E.LO15	Writes messages, invitations, short paragraphs and letters (formal and informal) and with a sense of audience
6.E.LO16	Visits a language laboratory
6.E.LO17	Writes a Book Review.

Class VII (English)

Codes	Learning Outcomes
7.E.LO1	Answers questions orally and in writing on a variety of texts
7.E.LO2	Reads aloud stories and recites poems with appropriate pause, intonation and pronunciation
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
7.E.LO4	Engages in conversations in English with family, friends, and people from different professions such as shopkeeper, salesperson etc. Using appropriate vocabulary
7.E.LO5	Responds to different kinds of instructions, requests, directions in varied contexts viz. School, bank, railway station
7.E.LO6	Speaks about excerpts, dialogues, skits, short films, news and debate on TV and radio, audio–video programmes on suggested websites
7.E.LO7	Asks and responds to questions based on texts (from books or other resources) and out of curiosity
7.E.LO8	Reads textual/non-textual materials in English/Braille with comprehension
7.E.LO9	Identifies details, characters, main idea and sequence of ideas and events in textual / non-textual material
7.E.LO10	Thinks critically, compares and contrasts characters, events, ideas, themes and relates them to life
7.E.LO11	Reads to seek information in print / online, notice board, signboards in public places, newspaper, hoardings etc.
7.E.LO12	Takes notes while teacher teaches /from books / from online materials.
7.E.LO13	Infers the meaning of unfamiliar words by reading them in context

7.E.LO14	Refers dictionary, thesaurus and encyclopaedia to find meanings / spelling of words while reading and writing
7.E.LO15	Reads a variety of texts for pleasure e.g. Adventure stories and science fiction, fairy tales, biography, autobiography, travelogue etc. (extensive reading)
7.E.LO16	Uses appropriate grammatical forms in communication (e.g. Noun, pronoun, verb, determiners, time and tense, passivisation, adjective, adverb, etc)
7.E.LO17	Organises sentences coherently in English / in Braille with the help of verbal and visual clues and with a sense of audience
7.E.LO18	Writes formal letters, personal diary, list, email, SMS, etc.
7.E.LO19	Writes descriptions / narratives showing sensitivity to gender, environment and appreciation of cultural diversity.
7.E.LO20	Writes dialogues from a story and story from dialogues
7.E.LO21	Visits a language laboratory.
7.E.LO22	Writes a Book Review.

Class VIII (English)

Codes	Learning Outcomes
8.E.LO1	Responds to instructions and announcements in school and public places viz. Railway station, market, airport, cinema hall, and act accordingly.
8.E.LO2	Introduces guests in English, interviews people by asking questions based on the work they do.
8.E.LO3	Engages in conversations in English with people from different professions such as bank staff, railway staff, etc. Using appropriate vocabulary.
8.E.LO4	Uses formulaic/polite expressions to communicate such as 'May I borrow your book?', 'I would like to differ' etc.
8.E.LO5	Speaks short prepared speech in morning assembly.

8.E.LO6	Speaks about objects / events in the class / school environment and outside surroundings.
8.E.LO7	Participates in grammar games and kinesthetic activities for language learning.
8.E.LO8	Reads excerpts, dialogues, poems, commentaries of sports and games speeches, news, debates on TV, Radio and expresses opinions about them.
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)
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;
8.E.LO11	Narrates stories (real or imaginary) and real life experiences in English.
8.E.LO12	Interprets quotations, sayings and proverbs.
8.E.LO13	Reads textual/non-textual materials in English/Braille with comprehension.
8.E.LO14	Identifies details, characters, main idea and sequence of ideas and events while reading.
8.E.LO15	Reads, compares, contrasts, thinks critically and relates ideas to life.
8.E.LO16	Infers the meaning of unfamiliar words by reading them in context.
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)
8.E.LO18	Refers dictionary, thesaurus and encyclopedia as reference books for meaning and spelling while reading and writing.
8.E.LO19	Prepares a write up after seeking information in print / online, notice board, newspaper, etc.
8.E.LO20	Communicates accurately using appropriate grammatical forms (e.g., clauses, comparison of adjectives, time and tense, active passive voice, reported speech etc.)

8.E.LO21	Writes a coherent and meaningful paragraph through the process of drafting, revising, editing and finalising.
8.E.LO22	Writes short paragraphs coherently in English/Braille with a proper beginning, middle and end with appropriate punctuation marks.
8.E.LO23	Writes answers to textual/non-textual questions after comprehension / inference; draws character sketch, attempts extrapolative writing.
8.E.LO24	Writes email, messages, notice, formal letters, descriptions/ narratives, personal diary, report, short personal/ biographical experiences etc.
8.E.LO25	Develops a skit (dialogues from a story) and story from dialogues.
8.E.LO26	Visits a language laboratory.
8.E.LO27	Writes a Book Review.

Class IX (English)

Codes	Learning Outcomes
9.E.LO1	Listens to announcements, instructions, read aloud texts, audio and videos for information, gist and details; responds by answering questions accordingly.
9.E.LO2	Listens to and discusses literary/ non-literary inputs in varied contexts to infer, interpret and appreciate.
9.E.LO3	Communicates thoughts, ideas, views and opinions verbally and non-verbally.
9.E.LO4	Speaks fluently with proper pronunciation, intonation and pause, using appropriate grammar.
9.E.LO5	Listens to and speaks on a variety of verbal inputs viz. debate speech, group discussion, power point presentation, radio programme, interview, mock parliament etc.
9.E.LO6	Reads aloud and recites poems/prose with proper stress, pause, tone and intonation.

9.E.LO7	Reads with comprehension the given text / materials employing strategies like skimming, scanning, predicting, previewing, reviewing, inferring and summarising.
9.E.LO8	Reads silently with comprehension and interprets layers of meaning.
9.E.LO9	Writes short answers, paragraphs, reports using appropriate vocabulary and grammar on a given theme.
9.E.LO10	Writes letters both formal and informal, invitations, advertisements, notices, slogans, messages and emails.
9.E.LO11	Writes short dialogues and participates in role plays, skits, street plays, etc. for the promotion of social causes like <i>Beti Bachao Beti Padhao</i> , <i>Swachh Bharat Abhiyaan</i> , human trafficking, conservation of environment, child labour, drug abuse, promotion of literacy, etc.
9.E.LO12	Uses appropriate punctuation marks and correct spelling of words while taking down dictation.
9.E.LO13	Takes notes and makes notes while listening to TV news, discussions, speech, reading aloud/silent reading of texts, etc. and summarises.
9.E.LO14	Reads with understanding information in his environment outside the schools as in hoardings, advertisements, product labels, visiting market place, etc.
9.E.LO15	Organizes and structures thoughts, presents information and opinions in a variety of oral and written forms for different audiences and purposes.
9.E.LO16	Interprets map, graph, table to speak or write a paragraph based on interpretation.
9.E.LO17	Edits passages with appropriate punctuation marks, grammar and correct spelling.
9.E.LO18	Uses grammar items in context, such as, reporting verbs, passive and tense, time and tense, subject-verb agreement, etc.
9.E.LO19	Uses words, phrases, idioms and word chunks for meaning-making in contexts.
9.E.LO20	Understands and elicits meanings of the words in different contexts, and by using dictionary, thesaurus and digital facilities.

9.E.LO21	Reads literary texts for enjoyment /pleasure and compares, interprets and appreciates characters, themes, plots and incidents and gives opinion.
9.E.LO22	Explains specific features of different literary genres for interpretation and literary appreciation.
9.E.LO23	Identifies and appreciates significant literary elements, such as, metaphor, imagery, symbol, simile, personification, onomatopoeia, intention or point of view, rhyme scheme, themes, titles, etc.
9.E.LO24	Writes short stories and composes poems on the given theme or on their own.
9.E.LO25	Exhibits in action and practice the values of honesty, cooperation, patriotism, and while speaking and writing on variety of topics.
9.E.LO26	Uses bilingual or multilingual abilities to comprehend a text and participates in activities like translations and bilingual and multilingual discourses on various themes.
9.E.LO27	Uses Sign Language to communicate with fellow learners with hearing impairment in an inclusive set up.
9.E.LO28	Reads poems, stories, texts given in Braille; graphs and maps given in tactile/raised material; interprets, discusses, and writes with the help of a scribe.
9.E.LO29	Appreciates similarities and differences across languages in a multilingual classroom and society.
9.E.LO30	Recognises and appreciates cultural experiences and diversity in the text and makes oral and written presentations.

Class X (English)

Codes	Learning Outcomes
10.E.LO1	Listens to announcements, instructions, read-aloud texts, audio, videos for information, gist and details; responds by answering questions accordingly.

10.E.LO2	Listens to and discusses literary / non-literary inputs in varied contexts to infer, interpret and appreciate.
10.E.LO3	Speaks with coherence and cohesion while participating in interactive tasks.
10.E.LO4	Uses language appropriate to purposes and perspectives.
10.E.LO5	Talks on key contemporary issues like social justice, environment, gender, etc. in speech and writing.
10.E.LO6	Participates in bilingual or multilingual discourses on various themes.
10.E.LO7	Reads, comprehends, and responds to complex texts independently.
10.E.LO8	Reads stories and literary texts, both fiction and non-fiction, with understanding for pleasure and enjoyment and discusses about these.
10.E.LO9	Appreciates nuances and shades of literary meanings, talks about literary devices like onomatopoeic sounds, symbols, metaphors, alliterations, comparisons, allusions and the poet's or the writer's point of view.
10.E.LO10	Collects evidences and discusses in groups for reading autobiographies, history and science based literary texts.
10.E.LO11	Writes paragraphs, narratives, etc. by planning revising, editing, rewriting and finalising.
10.E.LO12	Writes reports of functions in school, family and community activities.
10.E.LO13	Writes personal, official and business letters, articles, debates, paragraphs based on visual or verbal clues, textual inputs, etc.
10.E.LO14	Evaluates content presented in print and in different genres/formats and presents content using symbols, graphs, diagrams, etc.
10.E.LO15	Analyses and appreciates a point of view or cultural experience as reflected in the text; presents orally or in writing.
10.E.LO16	Draws references from books, newspapers, internet etc., and interprets using analytical skills.
10.E.LO17	Speaks or writes on variety of themes.

10.E.LO18	Consults or refers to dictionary, periodicals and books for academic and other purposes; and uses them in speech and writing.
10.E.LO19	Provides facts and background knowledge in areas such as science and social science and presents viewpoints based on those facts.
10.E.LO20	Takes down dictation using appropriate punctuation marks and correct spelling of the words dictated.
10.E.LO21	Takes and makes notes while listening to TV news, discussions, speech, reading aloud or silent reading of texts, etc. and summarises.
10.E.LO22	Uses grammatical items appropriate to the context in speech and writing.
10.E.LO23	Uses grammatical items as cues for reading comprehension such as tense, reported speech, conjunctions and punctuation.
10.E.LO24	Uses words according to the context and delineate it in speech and writing.
10.E.LO25	Uses formulaic and idiomatic expressions in speech and writing.
10.E.LO26	Makes use of collocations and idioms in speech and writing.
10.E.LO27	Identifies significant literary elements such as figurative language – metaphor, imagery, symbol, simile, intention or point of view, rhyme scheme, etc.
10.E.LO28	Uses the figurative meaning of words and phrases as given in the texts read.
10.E.LO29	Assesses one's own and peers' work based on developed rubrics.
10.E.LO30	Develops questions for collecting data for survey on relevant issues.
10.E.LO31	Writes scripts and participates in role play, skit, street plays for the promotion of social issues like <i>Beti Bachao Beti Badhao</i> , <i>Swachh Bharat Abhiyaan</i> , conservation of environment, child labour, drug abuse and promotion of literacy etc.
10.E.LO32	Uses bilingual or multilingual ways to exchange ideas or disseminating information with the help of ICT, PPT, role play, street play, drama, written scripts, etc.
10.E.LO33	Recognises and appreciates cultural experiences given in the text in a written paragraph, or in narrating the situations and incidents in the

	class.
10.E.LO34	Exhibits core values such as tolerance, appreciation of diversity and civic responsibility through debate, discussion, etc.
10.E.LO35	Learns to use Sign Language to communicate and uses Sign language with fellow learners with hearing impairment in an inclusive set up.
10.E.LO36	Reads the poems, stories, texts given in Braille; graphs and maps given in tactile or raised material; interprets, discusses, and writes with the help of a scribe.

Class I (Mathematics)

Codes	Learning Outcomes
1.M.LO1	Classifies objects into groups based on a few physical attributes such as shape, size and other observable properties including rolling and sliding, recites number names and counts objects up to 20, concretely, pictorially and symbolically
1.M.LO2	Works with numbers 1 to 20
1.M.LO2.1	Counts objects using numbers 1 to 9
1.M.LO2.2	Compares numbers up to 20. For example, tells whether number of girls or number of boys is more in the class
1.M.LO3	Applies addition and subtraction of numbers 1 to 20 in daily life
1.M.LO3.1	Construct addition facts up to 9 by using concrete objects. For example, to find $3+3$ counts 3 steps forward from 3 and concludes that $3+3=6$
1.M.LO3.2	Subtracts numbers using 1 to 9. For example, the child takes out 3 objects from a collection of 9 objects and counts the remaining to conclude $9-3=6$
1.M.LO3.3	Solves day-to-day problems related to addition and subtraction of numbers up to 9
1.M.LO4	Recognises numbers up to 99 and writes numerals

1.M.LO5	Describes the physical features of various solids/shapes in her own language. For example- a ball rolls, a box slides, etc.
1.M.LO6	Estimates and measures short lengths using non uniform units like a finger, hand span, length of a forearm, footsteps, etc.
1.M.LO7	Observes, extends and creates patterns of shapes and numbers. For example, arrangement of shapes/ objects/ numbers, etc.
1.M.LO8	Collects, records (using pictures/numerals) and interprets simple information by looking at visuals. (For example in a picture of a garden the child looks at different flowers and draws inference that flowers of a certain colour are more).
1.M.LO9	Develops the concept of zero.

Class II (Mathematics)

Codes	Learning Outcomes
2.M.LO1	Works with two digit numbers –
2.M.LO1.1	Reads and writes numerals for numbers up to 99
2.M.LO1.2	Uses place value in writing and comparing two digit numbers
2.M.LO1.3	Forms the greatest and smallest two digit numbers (with and without repetition of given digits)
2.M.LO1.4	Solves simple daily life problems/ situations based on addition of two digit numbers
2.M.LO1.5	Solves daily life situations based on subtraction of two digit numbers
2.M.LO1.6	Represents an amount up to Rs. 100 using 3-4 notes and coins (of same/ different denominations of play money)
2.M.LO2	Describes basic 3D and 2D shapes with their observable characteristics
2.M.LO2.1	Identifies basic 3D-shapes such as cuboid, cylinder, cone and sphere by their names
2.M.LO2.2	Distinguishes between straight and curved lines

2.M.LO2.3	Draws/ represents straight lines in various orientations (vertical, horizontal, slant)
2.M.LO3	Estimates and measures length/distances and capacities of containers using uniform non-standard units like a rod/pencil, cup/spoon/bucket etc.
2.M.LO4	Compares objects as heavier/lighter than using simple balance.
2.M.LO5	Identifies the days of the week and months of the year
2.M.LO6	Sequences the events occurring according to their duration in terms of hours/days; for example, does a child remain in school for a longer period than at home?
2.M.LO7	Draws inference based on the data collected such as the number of vehicles used in Samir's house is more than that in Angelina's.

Class III (Mathematics)

Codes	Learning Outcomes
3.M.LO1	Works with three digit numbers
3.M.LO1.1	Reads and writes numbers up to 999 using place value
3.M.LO1.2	Compares numbers up to 999 for their value based on their place value
3.M.LO1.3	Solves simple daily life problems using addition and subtraction of three digit numbers with and without regrouping, sums not exceeding 999
3.M.LO1.4	Constructs and uses the multiplication facts (tables) of 2, 3, 4, 5 and 10 in daily life situations
3.M.LO1.5	Analyses and applies an appropriate number operation in the situation/ context
3.M.LO1.6	Explains the meaning of division facts by equal grouping/sharing and finds it by repeated subtraction. For example, $12 \div 3$ can be explained as number of groups of 3 can be explained as number of groups of 3 to make 12 and finds it as 4 by repeatedly subtracting 3 from 12
3.M.LO2	Adds and subtracts small amounts of money with or without regrouping
3.M.LO3	Makes rate charts and simple bills

3.M.LO4	Acquires understanding about 2D shapes
3.M.LO4.1	Identifies and makes 2D-shapes by paper folding, paper cutting on the dot grid, using straight lines etc.
3.M.LO4.2	Describes 2D shapes by the number of sides, corners and diagonals. For example, the shape of the book cover has 4 sides, 4 corners and two diagonals
3.M.LO4.3	Fills a given region leaving no gaps using a tile of a given shape
3.M.LO5	Estimates and measures length and distance using standard units like centimetres or metres and identifies relationships
3.M.LO6	Weighs objects using standard units- grams and kilograms using simple balance
3.M.LO7	Compares the capacity of different containers in terms of non-standard units
3.M.LO8	Adds and subtracts measures involving grams & kilograms in life situations
3.M.LO9	Identifies a particular day and date on a calendar
3.M.LO10	Reads the time correctly to the hour using a clock/watch
3.M.LO11	Extends patterns in simple shapes and numbers
3.M.LO12	Records data using tally marks, represents pictorially and draws conclusions.

Class IV (Mathematics)

Codes	Learning Outcomes
4.M.LO1	Applies operations of numbers in daily life
4.M.LO1.1	Multiplies 2 and 3 digit numbers
4.M.LO1.2	Divides a number by another number using different methods like pictorially (by drawing dots), equal grouping or repeated subtraction and by using inter- relationship between division and multiplication
4.M.LO1.3	Creates and solves simple real life situations/ problems including money, length, mass and capacity by using the four operations

4.M.LO2	Works with fractions
4.M.LO2.1	Identifies half, one-fourth, three-fourths of a whole in a given picture by paper folding and also in a collection of objects.
4.M.LO2.2	Represents the fractions as half, one-fourth and three-fourths by using numbers/ numerals
4.M.LO2.3	Shows the equivalence of a fraction with other fractions
4.M.LO3	Acquires understanding about shapes around her/him
4.M.LO3.1	Identifies the centre, radius and diameter of the circle
4.M.LO3.2	Finds out shapes that can be used for tiling
4.M.LO3.3	Makes cube/ cuboids using the given nets
4.M.LO3.4	Shows through paper folding/ paper cutting, ink blots, etc. The concept of symmetry by reflection
4.M.LO3.5	Draws top view, front view and side view of simple objects
4.M.LO4	Explores the area and perimeter of simple geometrical shapes (triangle, rectangle, square) in terms of given shape as a unit. For example, the number of books that can completely fill the top of a table.
4.M.LO5	Converts metre into centimetre and vice- versa
4.M.LO6	Estimates the length of an object/distance between two locations, weight of various objects, volume of liquid, etc., and verifies them by actual measurement
4.M.LO7	Solves problem involving daily life situations related to length, distance, weight, volume and time involving four basic arithmetic operations
4.M.LO8	Reads clock time in hour and minutes and expresses the time in A.M. and P.M.
4.M.LO9	Relates to 24 hr. clock with respect to 12 hr. clock
4.M.LO10	Calculates time intervals/ duration of familiar daily life events by using forward or backward counting/ addition and subtraction
4.M.LO11	Identifies the pattern in multiplication and division (up to multiple of 9)

4.M.LO12	Observes, identifies and extends geometrical patterns based on symmetry
4.M.LO13	Represents the collected information in tables and bar graphs and draws inferences from these

Class V (Mathematics)

Codes	Learning Outcomes
5.M.LO1	Works with large numbers
5.M.LO1.1	Reads and writes numbers bigger than 1000 being used in her/his surroundings
5.M.LO1.2	Performs four basic arithmetic operations on numbers beyond 1000 by understanding of place value of numbers
5.M.LO1.3	Divides a given number by another number using standard algorithms
5.M.LO1.4	Estimates sum, difference, product and quotient of numbers and verifies the same using different strategies like using standard algorithms or breaking a number and then using operation. For example, to divide 9450 by 25, divide 9000 by 25, 400 by 25, and finally 50 by 25 and gets the answer by adding all these quotients.
5.M.LO2	Acquires understanding about fractions
5.M.LO2.1	Finds the number corresponding to part of a collection
5.M.LO2.2	Identifies and forms equivalent fractions of a given fraction
5.M.LO2.3	Expresses a given fraction $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}$ in decimal notation and vice-versa. For example, in using units of length and money- half of Rs.10 is Rs.5
5.M.LO2.4	Converts fractions into decimals and vice versa
5.M.LO3	Explores idea of angles and shapes
5.M.LO3.1	Classifies angles into right angle, acute angle, obtuse angle and represents the same by drawing and tracing

5.M.LO3.2	Identifies 2D shapes from the immediate environment that have rotation and reflection symmetry like alphabet and shapes
5.M.LO3.3	Makes cube, cylinder and cone using nets designed for this purpose
5.M.LO4	Relates different commonly used larger and smaller units of length, weight and volume and converts larger units to smaller units and vice versa
5.M.LO5	Estimates the volume of a solid body in known units like volume of a bucket is about 20 times that of a mug
5.M.LO6	Applies the four fundamental arithmetic operations in solving problems involving money, length, mass, capacity and time intervals
5.M.LO7	Identifies the pattern in triangular number and square number
5.M.LO8	Collects data related to various daily life situations, represents it in tabular form and as bar graphs and interprets it.

Class VI (Mathematics)

Codes	Learning Outcomes
6.M.LO1	Solves problems involving large numbers by applying appropriate operations (addition, subtraction, multiplication and division
6.M.LO2	Recognises and appreciates (through patterns) the broad classification of numbers as even, odd, prime, co-prime, etc.
6.M.LO3	Applies HCF or LCM in a particular situation
6.M.LO4	Solves problem involving addition and subtraction of integers.
6.M.LO5	Uses fractions and decimals in different situations which involve money, length, temperature etc. For example, $7\frac{1}{2}\%$ metres of cloth, distance between two places is 112.5 km etc.
6.M.LO6	Solves problems on daily life situations involving addition and subtraction of fractions / decimals

6.M.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
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
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
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
6.M.LO11	Demonstrates an understanding of angles by
6.M.LO11.1	Identifying examples of angles in the surroundings
6.M.LO11.2	Classifying angles according to their measure
6.M.LO11.3	Estimating the measure of angles using 45° , 90° , and 180° as reference angles
6.M.LO12	Demonstrates an understanding of line symmetry by
6.M.LO12.1	Identifying symmetrical 2-Dimensional (2-D) shapes which are symmetrical along one or more lines
6.M.LO12.2	Creating symmetrical 2-D shapes
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.
6.M.LO14	Classifies quadrilaterals into different groups/types on the basis of their sides/ angles
6.M.LO15	Identifies various (3-D) objects like sphere, cube, cuboid, cylinder, cone from the surroundings
6.M.LO16	Describes and provides examples of edges, vertices and faces of 3-D objects
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.

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.
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Class VII (Mathematics)

Codes	Learning Outcomes
7.M.LO1	Multiplies/divides two integers
7.M.LO2	Interprets the division and multiplication of fractions. For example, interprets: $\frac{2}{3} \times \frac{4}{5}$ as of $\frac{2}{3}$ of $\frac{4}{5}$. Also $\frac{1}{2} \div \frac{1}{4}$ is interpreted as how many $\frac{1}{4}$ make $\frac{1}{2}$?
7.M.LO3	Uses algorithms to multiply and divide fractions/decimals.
7.M.LO4	Solves problems related to daily life situations involving rational numbers
7.M.LO5	Uses exponential form of numbers to simplify problems involving multiplication and division of large numbers.
7.M.LO6	Represents daily life situations in the form of a simple equation and solves it
7.M.LO7	Adds/subtracts algebraic expressions
7.M.LO8	Distinguishes quantities that are in proportion. For example, tells that 15, 45, 40, 120 are in proportion as $\frac{15}{45}$ is the same as $\frac{40}{120}$
7.M.LO9	Solves problems related to conversion of percentage to fraction and decimal and vice versa
7.M.LO10	Calculates profit/loss percent and rate percent in simple interest
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.

7.M.LO12	Verifies the properties of various pairs of angles formed when a transversal cuts two lines
7.M.LO13	Finds unknown angle of a triangle when its two angles are known
7.M.LO14	Explains congruency of triangles on the basis of the information given about them like (SSS, SAS, ASA, RHS)
7.M.LO15	Using ruler and a pair of compasses constructs, a line parallel to a given line from a point outside it and triangles
7.M.LO16	Finds out approximate area of closed shapes by using unit square grid/ graph sheet
7.M.LO17	Calculates areas of the regions enclosed in a rectangle and a square
7.M.LO18	Finds various representative values for simple data from her/his daily life contexts like mean, median and mode
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
7.M.LO20	Interprets data using bar graph such as consumption of electricity is more in winters than summer, runs scored by a team in first 10 overs etc.

Class VIII (Mathematics)

Codes	Learning Outcomes
8.M.LO1	Generalises properties of addition, subtraction, multiplication and division of rational numbers through patterns
8.M.LO2	Finds out as many rational numbers as possible between two given rational numbers.
8.M.LO3	Proves divisibility rules of 2, 3,4, 5, 6, 9 and 11

8.M.LO4	Finds squares, cubes and square roots and cube roots of numbers using different methods.
8.M.LO5	Solves problems with integral exponents.
8.M.LO6	Solves puzzles and daily life problems using variables.
8.M.LO7	Multiplies algebraic expressions e.g expands $(2x-5)(3x+7)$
8.M.LO8	Uses various algebraic identities in solving problems of daily life
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
8.M.LO10	Solves problems based on direct and inverse proportions
8.M.LO11	Solves problems related to angles of a quadrilateral using angle sum property
8.M.LO12	Verifies properties of parallelograms and establishes the relationship between them through reasoning.
8.M.LO13	Represents 3D shapes on a plane surface such as sheet of paper, black board etc.
8.M.LO14	Verifies Euler's relation through pattern
8.M.LO15	Constructs different quadrilaterals using compasses and straight edge.
8.M.LO16	Estimates the area of shapes like trapezium and other polygons by using square grid/ graph sheet and verifies using formulas.
8.M.LO17	Finds the area of a polygon.
8.M.LO18	Finds surface area and volume of cuboidal and cylindrical object
8.M.LO19	Draws and interprets bar charts and pie charts
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

Class IX (Mathematics)

Codes	Learning Outcomes
9.M.LO1	Applies logical reasoning in classifying real numbers, proving their properties and using them in different situations.
9.M.LO2	Identifies/classifies polynomials among algebraic expressions and factorises them by applying appropriate algebraic identities.
9.M.LO3	Relates the algebraic and graphical representations of a linear equation in one/two variables and applies the concepts to daily life situations.
9.M.LO4	Identifies similarities and differences among different geometrical shapes.
9.M.LO5	Derives proofs of mathematical statements particularly related to geometrical concepts, like parallel lines, triangles, quadrilaterals, circles etc. by applying axiomatic approach and solves problems using them.
9.M.LO6	Finds areas of all types of triangles by applying appropriate formulae and apply them in real life situations.
9.M.LO7	Constructs different geometrical shapes like bisectors of line segments, angles, and triangles under given conditions and provides reasons for the processes of such constructions.
9.M.LO8	Develops strategies to locate points in a Cartesian plane.
9.M.LO9	Identifies and classifies the daily life situations in which mean, median and mode can be used.
9.M.LO10	Analyses data by representing it in different forms like, tabular form (grouped or ungrouped), bar graph, histogram (with equal and varying width and length), and frequency polygon.
9.M.LO11	Calculates empirical probability through experiments and describes its use in words.
9.M.LO12	Derives formulas for surface areas and volumes of different solid objects like cubes, cuboids, right circular cylinders/cones, spheres and hemispheres and applies them to objects found in the surroundings.

9.M.LO13	Solves problems that are not in familiar context of the child using above learning These problems should include the situations about which child is not exposed earlier.
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Class X (Mathematics)

Codes	Learning Outcomes
10.M.LO1	Generalises properties of numbers and relations among them studied earlier to evolve results, such as, Euclid's division algorithm, Fundamental Theorem of Arithmetic, and applies them to solve problems related to real life contexts.
10.M.LO2	Develops a relationship between algebraic and graphical methods of finding the zeroes of a polynomial.
10.M.LO3	Finds solutions of pairs of linear equations in two variables using graphical and different algebraic methods.
10.M.LO4	Demonstrates strategies of finding roots and determining the nature of roots of a quadratic equation.
10.M.LO5	Develops strategies to apply the concept of A.P. to daily life situations.
10.M.LO6	Works out ways to differentiate between congruent and similar figures
10.M.LO7	Establishes properties for similarity of two triangles logically using different geometric criteria established earlier such as, Basic Proportionality Theorem, etc.
10.M.LO8	Derives formulae to establish relations for geometrical shapes in the context of a coordinate plane, such as finding the distance between two given points, to determine coordinates of a point between any two given points, to find area of a triangle, etc.
10.M.LO9	Determines all trigonometric ratios with respect to a given acute angle (of a right triangle) and uses them in solving problems in daily life contexts like finding heights of different structures or distances from them

10.M.LO10	Derives proofs of theorems related to the tangents of circles
10.M.LO11	Constructs-
10.M.LO11.1	A triangle similar to a given triangle as per a given scale factor
10.M.LO11.2	A pair of tangents from an external points to a circle and justify procedures.
10.M.LO12	Examines the steps of geometrical constructions and reason out each step
10.M.LO13	Finds surface areas and volumes of objects in the surroundings by visualising them as a combination of different solids like cylinder and a cone, cylinder and a hemisphere, combination of different cubes, etc.
10.M.LO14	Calculates mean, median and mode for different sets of data related with real life contexts.
10.M.LO15	Determines the probability of an event and applies the concept in solving daily life problems.

Class III (EVS)

Codes	Learning Outcomes
3.EVS.LO1	Identifies simple observable features (e.g., shape, colour, texture, aroma) of leaves, trunk and bark of plants in immediate surroundings
3.EVS.LO2	Identifies simple features (e.g., movement, at places found/kept, eating habits, sounds) of animals and birds) in the immediate surroundings
3.EVS.LO3	Identifies relationships with and among family members
3.EVS.LO4	Identifies objects, signs (vessels, stoves, transport, means of communication, transport, signboards etc.); places (types of houses/shelters, bus stand, petrol pump etc.) Activities (works people do, cooking processes, etc.) At home/school/ neighbourhood
3.EVS.LO5	Describes need of food for people of different age groups; animals and birds, availability of food and water and use of water at home

	and surroundings
3.EVS.LO6	Describes roles of family members, family influences (traits/ features /habits / practices), need for living together, through oral/ written/other ways
3.EVS.LO7	Groups objects, birds, animals, features, activities according to differences/ similarities using different senses. (e.g., appearance/ place of living/ food/ movement/ likes-dislikes/ any other features using different senses}.
3.EVS.LO8	Differentiates between objects and activities of present and past (at time of the elders). (e.g., clothes /vessels /games played/ work done by people)
3.EVS.LO9	Identifies directions, location of objects/ places in simple maps (of home/ classroom/ school) using signs/symbols/verbally
3.EVS.LO10	Guesses properties, estimates quantities; of materials/activities in daily life and verifies using symbols/non-standard units (hand spans, spoon/mugs, etc.)
3.EVS.LO11	Records observations, experiences, information on objects/activities/places visited in different ways and predicts patterns (e.g., shapes of moon, seasons)
3.EVS.LO12	Creates drawings, designs, motifs, models, top, front, side views of objects, simple maps (of classroom, sections of home/ school, etc.) And slogans, poems, etc.
3.EVS.LO13	Observes rules in games (local, indoor, outdoor) and other collective tasks
3.EVS.LO14	Voices opinion on good/bad touch; stereotypes for tasks/play/food in family w.r.t gender, misuse/wastage of food and water in family and school
3.EVS.LO15	Shows sensitivity for plants, animals, the elderly, differently abled and diverse family set ups in surroundings. (For the diversity in appearance, abilities, choices - likes/ dislikes, and access to basic needs such as food, shelter, etc.)

Class IV (EVS)

Codes	Learning Outcomes
4.EVS.LO1	Identifies simple features (e.g., shape, colour, aroma, where they grow/any other) of flowers, roots and fruits in immediate surroundings.
4.EVS.LO2	Identifies different features (beaks/teeth, claws, ears, hair, nests/shelters, etc. of birds and animals.
4.EVS.LO3	Identifies relationship with and among family members in extended family.
4.EVS.LO4	Explains the herd/group behaviour in animals (ants, bees, elephants), birds (building nests); changes in family (e.g., due to birth, marriage, transfer, etc.)
4.EVS.LO5	Describes different skilled work (farming, construction, art/craft, etc.); their inheritance (from elders) and training (role of institutions) in daily life
4.EVS.LO6	Explains the process of producing and procuring daily needs (e.g., food, water, clothes) i.e., from source to home. (e.g., crops from field to mandi and home, water from local source and ways of its purification at home/ neighbourhood)
4.EVS.LO7	Differentiates between objects and activities of past and present. (e.g., transport, currency, houses, materials, tools, skills- farming, construction, etc.)
4.EVS.LO8	Groups the animals, birds, plants, objects, waste material for observable features. (e.g., on appearance (ears, hair, beaks, teeth, texture of skin/surface), instincts (domestic/wild, fruit/ vegetable/ pulses/ spices and their shelf life) uses (edibility, medicinal, decoration, any other, reuse), traits (smell-taste, likes, etc.)
4.EVS.LO9	Guesses (properties, conditions of phenomena), estimates spatial quantities (distance, weight, time, duration) in standard/local units (kilo, gaz, pav etc.) And verifies using simple tools/set ups to

	establish relation between cause and effect. (e.g., evaporation, condensation, dissolution, absorption; for places- near/ far, objects- size and growth; shelf life of flower, fruit, vegetables)
4.EVS.LO10	Records her observations /experiences/ information for objects, activities, phenomena, places visited (mela, festival, historical place) in different ways and predicts patterns in activities/phenomena.
4.EVS.LO11	Identifies signs, location of objects/places and guides for the directions w.r.t a landmark in school/neighbourhood using maps etc.
4.EVS.LO12	Uses the information on signboards, posters, currency (notes/coins), railway ticket/time table.
4.EVS.LO13	Creates collage, designs, models, rangolis, posters, albums, and simple maps (of school/neighbourhood, flow diagrams, etc.) Using local/waste material.
4.EVS.LO14	Voices opinion on issues observed/ experienced in, family/ school/ neighbourhood, e.g., on stereotypes (making choices/ decision making/solving problems), discriminatory practices on caste in use of public places, water, MDM/ community eating, child rights (schooling, child abuse, punishment, labour).
4.EVS.LO15	Suggests ways for hygiene, reduce, reuse, recycle and takes care of different living beings (plants, animals, and the elderly, differently abled people/, resources (food, water, and public property/.

Class V (EVS)

Codes	Learning Outcomes
5.EVS.LO1	Explains the super senses and unusual features (sight, smell, hear, sleep, sound, etc.) Of animals and their responses to light, sound, food etc.
5.EVS.LO2	Explains the use of technology and the process of accessing basic needs (food, water etc.) In our daily life. (e.g., farm produce to kitchen; grains to Roti, preservation techniques, storage and tracking of water source)
5.EVS.LO3	Describes the interdependence among animals, plants and humans.

	(e.g., communities earning livelihood from animals, dispersal of seeds etc.)
5.EVS.LO4	Explains the role and functions of different institutions in daily life. (Bank, Panchayat, cooperatives, police station, etc.)
5.EVS.LO5	Establishes linkages among terrain, climate, resources (food, water, shelter, livelihood) and cultural life. (e.g., life in distant/difficult areas like hot/cold deserts)
5.EVS.LO6	Groups objects, materials, activities for features and properties such as- shape, taste, colour, texture, sound, traits etc.
5.EVS.LO7	Traces the changes in practices, customs, techniques of past and present through coins, paintings, monuments, museum etc. And interacting with elders. (e.g., cultivation, conservation, festivals, clothes, transport, materials or tools, Occupations, buildings and houses, practices activities like cooking, eating, working)
5.EVS.LO8	Guesses (properties, conditions of phenomena), estimates spatial quantities (distance, area, volume, weight etc.) And time in simple standard units and verifies using simple tools/set ups. (e.g., floating/ sinking/ mixing/evaporation/germination /spoilage /breathing /taste)
5.EVS.LO9	Records observations and experiences; information in an organised manner (e.g., in tables/ sketches/ bar graphs/ pie charts) and predicts patterns in activities/ phenomena (e.g., floating, sinking, mixing, evaporation, germination, spoilage) to establish relation between cause and effect.
5.EVS.LO10	Identifies signs, directions, location of different objects/landmarks of a locality / place visited in maps and predicts directions in context of positions at different places for a location
5.EVS.LO11	Creates posters, designs, models , set ups, local dishes, sketches, maps (of neighbourhood/ different places visited) using a variety of local/waste material and writes poems/ slogans/travelogue etc.

5.EVS.LO12	Voices opinions on issues observed/ experienced and relates practices / happenings to larger issues of society. (e.g., discrimination for access/ownership of resources, migration/ displacement / exclusion, child rights)
5.EVS.LO13	Suggests ways for hygiene, health, managing waste, disaster/emergency situations and protecting/saving resources (land, fuels, forests, etc.) And shows sensitivity for the disadvantaged/deprived.

Class VI (Science)

Codes	Learning Outcomes
6.Sc.LO1	Identifies materials and organisms, such as, plant fibres, flowers, on the basis of observable features, i.e., appearance, texture, function, aroma, etc.
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
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.
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?
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.
6.Sc.LO6	Explains processes and phenomenon, e.g., processing of plant fibres; movements in plants and animals; formation of shadows; reflection of light from plane mirror; variations in composition of air; preparation of

	vermicompost, etc.
6.Sc.LO7	Measures physical quantities and expresses in SI units, e.g., length
6.Sc.LO8	Draws labelled diagrams / flow charts of organisms and processes, e.g., parts of flowers; joints; filtration; water cycle, etc.
6.Sc.LO9	Constructs models using materials from surroundings and explains their working, e.g., pinhole camera, periscope, electric torch, etc.
6.Sc.LO10	Applies learning of scientific concepts in day-to-day life, e.g., selecting food items for a balanced diet; separating materials; selecting season appropriate fabrics; using compass needle for finding directions; suggesting ways to cope with heavy rain/ drought, etc.
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.
6.Sc.LO12	Exhibits creativity in designing, planning, making use of available resources, etc.
6.Sc.LO13	Exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices.

Class VII (Science)

Codes	Learning Outcomes
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.
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 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
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?
7.Sc.LO5	Relates processes and phenomena with causes, e.g., wind speed with air pressure; crops grown with types of soil; depletion of water table with human activities, etc.
7.Sc.LO6	Explains processes and phenomena, e.g., processing of animal fibres; modes of transfer of heat; organs and systems in human and plants; heating and magnetic effects of electric current, etc.
7.Sc.LO7	Writes word equation for chemical reactions, e.g., acid-base reactions; corrosion; photosynthesis; respiration, etc.
7.Sc.LO8	Measures and calculates e.g., temperature; pulse rate; speed of moving objects; time period of a simple pendulum, etc.
7.Sc.LO9	Draws labelled diagrams/ flow charts e.g., organ systems in human and plants; electric circuits; experimental set ups; life cycle of silk moth, etc.
7.Sc.LO10	Plots and interprets graphs e.g., distance time graph
7.Sc.LO11	Constructs models using materials from surroundings and explains their working, e.g., stethoscope; anemometer; electromagnets; Newton's colour disc, etc.
7.Sc.LO12	Discusses and appreciates stories of scientific discoveries
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; 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.

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.
7.Sc.LO15	Exhibits creativity in designing, planning, making use of available resources, etc.
7.Sc.LO16	Exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices

Class VIII (Science)

Codes	Learning Outcomes
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.
8.Sc.LO2	Classifies materials and organisms based on properties/ characteristics, e.g., metals and non metals; <i>kharif and rabi crops</i> ; useful and harmful microorganisms; sexual and asexual reproduction; celestial objects; exhaustible and inexhaustible natural resources, etc.
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 <i>murabbas</i> ? Do liquids exert equal pressure at the same depth?
8.Sc.LO4	Relates processes and phenomenon with causes, e.g., smog formation with the presence of pollutants in air; deterioration of monuments with acid rain, etc.
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.
8.Sc.LO6	Writes word equation for chemical reactions, e.g., reactions of metals and non- metals with air, water and acids, etc.
8.Sc.LO7	Measures angles of incidence and reflection, etc.

8.Sc.LO8	Prepares slides of micro organisms; onion peel, human cheek cells, etc., and describes their microscopic features
8.Sc.LO9	Draws labelled diagram/ flow charts, e.g., structure of cell, eye, human reproductive organs; experimental set ups, etc.
8.Sc.LO10	Constructs models using materials from surroundings and explains their working, e.g., <i>ektara</i> , electroscopes, fire extinguisher, etc.
8.Sc.LO11	Applies learning of scientific concepts in day- to-day life, e.g., purifying water; segregating biodegradable and non-biodegradable wastes; increasing crop production; using appropriate metals and non-metals for various purposes; increasing/ reducing friction; challenging myths and taboos regarding adolescence, etc.
8.Sc.LO12	Discusses and appreciates stories of scientific discoveries
8.Sc.LO13	Makes efforts to protect environment, e.g., using resources judiciously; making controlled use of fertilisers and pesticides; suggesting ways to cope with environmental hazards, etc.
8.Sc.LO14	Exhibits creativity in designing, planning, making use of available resources, etc.
8.Sc.LO15	Exhibits values of honesty, objectivity, cooperation, freedom from fear and prejudices

Class IX (Science)

Codes	Learning Outcomes
9.Sc.LO1	Differentiates materials, objects, organisms, phenomena and processes, based on properties or characteristics, such as prokaryotes and eukaryotes, plant cell and animal cell, diffusion and osmosis, simple and complex tissues, distance and displacement, speed and velocity, balanced and unbalanced forces, elements, compound and mixture, solution, suspension and colloid, isobars and isotopes, etc.

9.Sc.LO2	Classifies materials, objects, organisms, phenomena and processes, based on, properties or characteristics, such as classification of plants and animals under various hierarchical sub-groups, natural resources, classification of matter based on their states (solid/ liquid/ gas) and composition (element/compound/ mixture), etc.
9.Sc.LO3	Plans and conducts investigations or experiments to arrive at and verify the facts, principles, phenomena or to seek answers to queries on their own, such as how does speed of an object change? How do objects float/ sink when placed on surface of liquid? Is there any change in mass when chemical reaction takes place? What is the effect of heat on the state of substances? What is the effect of compression on different states of matter? Where are stomata present in different types of leaves? Where are growing tissues present in plants?
9.Sc.LO4	Relates processes and phenomena with causes and effects, such as symptoms with diseases and causal agents, tissues with their functions, production with use of fertilisers, process of evaporation with cooling effect, various processes of separation with the physical and chemical properties of the substances, production of sound with vibrations of source, etc.
9.Sc.LO5	Explains processes and phenomena, such as functions of different organelles, spread of diseases and their prevention, effect of force on the state of motion of objects, action and reaction, rotation and revolution of planets and satellites, conservation laws, principle of separation of different gases from air, melting, boiling, freezing, how bats use ultrasonic waves to catch prey, etc.
9.Sc.LO6	Calculates using the data given, such as distance, velocity, speed, frequency, work done, number of moles in a given mass of substance, concentration of solution in terms of mass by mass percentage of substances, conversion of Celsius scale to Kelvin scale and vice versa, number of neutrons in an atom from atomic number and mass number, speed of sound, kinetic and potential energies of an object, boiling points of liquids to predict the order of their separation from the mixture, etc.

9.Sc.LO7	Draws labelled diagrams, flow charts, concept maps, graphs, such as, biogeochemical cycles, cell organelles and tissues, human ear, distance-time and speed-time graphs, distribution of electrons in different orbits in an atom, process of distillation and sublimation, etc.
9.Sc.LO8	Analyses and interprets graphs and figures such as distance-time and velocity-time graphs, computing distance, speed, acceleration of objects in motion, properties of components of a mixture to identify the appropriate method of separation, crop yield after application of fertilisers, etc.
9.Sc.LO9	Uses scientific conventions, symbols and equations to represent various quantities, elements and units, such as SI units, symbols of elements, formulae of simple compounds, chemical equations, etc.
9.Sc.LO10	Measures physical quantities using appropriate apparatus, instruments and devices, such as weight and mass of an object using spring balance, mass using a physical balance, time period of a simple pendulum, volume of liquid using measuring cylinder, temperature using thermometer, etc.
9.Sc.LO11	Applies learning to hypothetical situations, such as weight of an object at moon, weight of an object at equator and poles, possibility of life on other planets, etc.
9.Sc.LO12	Applies scientific concepts in daily life and solving problems, such as separation of mixtures, uses safety belts in automobiles, covers walls of large rooms with sound absorbent material, follows intercropping and crop rotation, takes preventive measures to control disease causing agents, etc.
9.Sc.LO13	Derives formulae, equations and laws, such as mathematical expressions for Newton's second law of motion, law of conservation of momentum, expression for force of gravity, equations of motion from velocity-time graphs, etc.
9.Sc.LO14	Draws conclusion, such as classification of life forms is related to evolution, deficiency of nutrients affects physiological processes in plants, matter is made up of particles, elements combine chemically in a fixed ratio to form compounds, effect of action and reaction on two different bodies, etc.

9.Sc.LO15	Describes scientific discoveries and inventions, such as discovery of various atomic models, discovery of cell with invention of microscope, experiments of Lavoisier and Priestley, beliefs regarding motion, discovery of real cause for peptic ulcers, Archimedes principle, classification of living things, etc.
9.Sc.LO16	Designs models using eco-friendly resources, such as, 3D model of a cell, water purification system, stethoscope, etc.
9.Sc.LO17	Exhibits values of honesty, objectivity, rational thinking, freedom from myths, superstitious beliefs while taking decisions, respect for life, etc., such as records and reports experimental data exactly, myth that sexually transmitted diseases are spread by casual physical contact, belief that vaccination is not important for prevention of diseases, etc.
9.Sc.LO18	Communicates the findings and conclusions effectively, such as those derived from experiments, activities and projects both in oral and written form using appropriate figures, tables, graphs and digital forms, etc.
9.Sc.LO19	Applies the interdependency and interrelationship in the biotic and abiotic factors of environment to promote conservation of environment, such as organic farming, waste management, etc.

Class X (Science)

Codes	Learning Outcomes
10.Sc.LO1	Differentiates materials, objects, organisms, phenomena, processes, based on, properties and characteristics, such as autotrophic and heterotrophic nutrition, biodegradable and non-biodegradable substances, various types of reactions, strong and weak acids and bases, acidic, basic and neutral salts, using different indicators, real and virtual images, etc.
10.Sc.LO2	Classifies materials, objects, organisms, phenomena and processes, based on, properties and characteristics, such as metals and non-metals, acids and bases on the basis of their chemical properties.

10.Sc.LO3	Plans and conducts investigations and experiments to arrive at and verify the facts, principles, phenomena or to seek answers to queries on their own, such as investigates conditions necessary for rusting, tests the conductivity of various solutions, compares the foaming capacity of different types of soap samples, verifies laws of reflection and refraction of light, Ohm's law, etc. Do variegated leaves perform photosynthesis? Which gas is evolved during fermentation? Why does the shoot of a plant moves towards light?
10.Sc.LO4	Relates processes and phenomena with causes and effects, such as hormones with their functions, tooth decay with pH of saliva, growth of plants with pH of the soil, survival of aquatic life with pH of water, blue colour of sky with scattering of light, deflection of compass needle due to magnetic effect of electric current, etc.
10.Sc.LO5	Explains processes and phenomena, such as nutrition in human beings and plants, transportation in plants and animals, extraction of metals from ores, placement of elements in modern periodic table, displacement of metals from their salt solutions on the basis of reactivity series, working of electric motor and generator, twinkling of stars, advanced sunrise and delayed sunset, formation of rainbow, etc.
10.Sc.LO6	Draws labelled diagrams, flow charts, concept map, and graphs, such as digestive, respiratory, circulatory, excretory and reproductive systems, electrolysis of water, electron dot structure of atoms and molecules, flow chart for extraction of metals from ores, ray diagrams, magnetic field lines, etc.
10.Sc.LO7	Analyses and interprets data, graphs, and figures, such as melting and boiling points of substances to differentiate between covalent and ionic compounds, pH of solutions to predict the nature of substances, V-I graphs, ray diagrams, etc.
10.Sc.LO8	Calculates using the data given, such as number of atoms in reactants and products to balance a chemical equation, resistance of a system of resistors, power of a lens, electric power, etc.

10.Sc.LO9	Uses scientific conventions to represent units of various quantities, symbols, formulae, and equations, such as balanced chemical equation by using symbols and physical states of substances, sign convention in optics, SI units, etc.
10.Sc.LO10	Handles tools and laboratory apparatus properly; measures physical quantities using appropriate apparatus, instruments, and devices, such as pH of substances using pH paper, electric current and potential difference using ammeter and voltmeter, etc.
10.Sc.LO11	Applies learning to hypothetical situations, such as, what happen if all herbivores are removed from an ecosystem? What will happen if all non- renewable sources of energy are exhausted?
10.Sc.LO12	Applies scientific concepts in daily life and solving problems, such as suggest precautions to prevent sexually transmitted Infections, uses appropriate electrical plugs ($\frac{5}{15}$ A) for different electrical devices, uses vegetative propagation to develop saplings in gardens, performs exercise to keep in good health, avoids using appliances responsible for ozone layer depletion, applies concept of decomposition reaction of baking soda to make spongy cakes, etc.
10.Sc.LO13	Derives formulae, equations, and laws, such as, equivalent resistance of resistors in series and parallel, etc.
10.Sc.LO14	Draws conclusion, such as traits or features are inherited through genes present on chromosomes, a new species originates through evolutionary processes, water is made up of hydrogen and oxygen, properties of elements vary periodically along the groups and periods in periodic table, potential difference across a metal conductor is proportional to the electric current flowing through it, etc.
10.Sc.LO15	Takes initiative to know about scientific discoveries and inventions, such as Mendel's contribution in understanding the concept of inheritance, Dobereiner for discovering triads of elements, Mendeleev for the development of the periodic table of elements, Oersted's discovery that electricity and magnetism are related, discovery of relation between potential difference across a metal conductor and the electric current flowing through it by Ohm, etc.

10.Sc.LO16	Exhibits creativity in designing models using eco-friendly resources, such as working model of respiratory, digestive and excretory systems, soda acid fire extinguisher, periodic table, micelles formation, formation of diamond, graphite, and Buckminsterfullerene, human eye, electric motor and generator, etc.
10.Sc.LO17	Exhibits values of honesty, objectivity, rational thinking, and freedom from myth and superstitious beliefs while taking decisions, respect for life, etc., such as reports and records experimental data accurately, says no to consumption of alcohol and drugs, sensitises others about its effect on physical and mental health, sensitises for blood and organ donations, understands the consequences of pre-natal sex determination, etc.
10.Sc.LO18	Communicates the findings and conclusions effectively, such as, those derived from experiments, activities, and projects orally and in written form using appropriate figures, tables, graphs, and digital forms, etc.
10.Sc.LO19	Makes efforts to conserve environment realising the interdependency and inter-relationship in the biotic and abiotic factors of environment, such as, appreciates and promotes segregation of biodegradable and non-biodegradable wastes, minimises the use of plastics, takes appropriate steps to promote sustainable management of resources in day-to-day life, advocates use of fuels which produce less pollutants, uses energy efficient electric devices, uses fossil fuels judiciously, etc.

Class VI (Social Science)

Codes	Learning Outcomes
6.SS.LO1	Distinguishes between stars, planets and satellites e.g., Sun, Earth and Moon
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
6.SS.LO3	Demonstrates day and night; and seasons

6.SS.LO4	Locates directions on the flat surface; and continents and oceans on the world map
6.SS.LO5	Identifies latitudes and longitudes, e.g., poles, equator, tropics, States/UTs of India and other neighbouring countries on globe and the world map
6.SS.LO6	Locates physical features of India such as- mountains, plateaus, plains, rivers, desert, etc. On the map of India
6.SS.LO7	Draws a neighborhood map showing scale, direction, and features with the help of conventional symbols
6.SS.LO8	Examines critically the superstitions related to eclipses
6.SS.LO9	Identifies different types of sources (archaeological, literary etc.) And describes their use in reconstruction of history of this period.
6.SS.LO10	Locates important historical sites, places on an outline map of India
6.SS.LO11	Recognises distinctive features of early human cultures and explains their growth
6.SS.LO12	Lists out significant contributions of important kingdoms, dynasties with examples viz., Ashokan inscriptions, Gupta coins, Ratha temples by Pallavas etc.
6.SS.LO13	Explains broad developments during the ancient period, e.g., hunting-gathering stage, the beginning of agriculture, the first cities on the Indus etc. And relates the developments occurring in one place with another
6.SS.LO14	Describes issues, events, personalities mentioned in literary works of the time
6.SS.LO15	Describes the implications of India's contacts with regions outside India in the fields of religion, art, architecture, etc.
6.SS.LO16	Outlines India's significant contributions in culture and science viz. Astronomy, medicine, mathematics, and knowledge of metals, etc.
6.SS.LO17	Synthesises information related to various historical developments
6.SS.LO18	Analyses basic ideas and values of various religions and systems of thought during ancient period
6.SS.LO19	Describes various forms of human diversity around her/him.

6.SS.LO20	Develops a healthy attitude towards various kinds of diversity around her/him
6.SS.LO21	Recognises various forms of discrimination and understands the nature and sources of discrimination.
6.SS.LO22	Differentiates between equality and inequality in various forms to treat them in a healthy way
6.SS.LO23	Describes the role of government, especially at the local level.
6.SS.LO24	Identifies various levels of the government— local, state and union
6.SS.LO25	Describes the functioning of rural and urban local government bodies in sectors like health and education
6.SS.LO26	Describes factors responsible for availability of different occupations undertaken in rural and urban areas

Class VII (Social Science)

Codes	Learning Outcomes
7.SS.LO1	Identifies major layers of the earth's interior, rock types, layers of the atmosphere in a diagram.
7.SS.LO2	Locates distribution and extent of different climatic regions on the world map or globe.
7.SS.LO3	Explains preventive actions to be undertaken in the event of disasters, e.g., earthquake, floods, droughts.
7.SS.LO4	Describes formation of landforms due to various factors.
7.SS.LO5	Explains composition and structure of the atmosphere.
7.SS.LO6	Describes different components of the environment and the interrelationship between them.
7.SS.LO7	Analyses factors contributing to pollution in their surroundings and lists measures to prevent it.

7.SS.LO8	Reasons and factors leading to diversity in flora and fauna, e.g., climate, landforms, etc.
7.SS.LO9	Reflects on the factors leading to disasters and calamities.
7.SS.LO10	Shows sensitivity to the need for conservation of natural resources- air, water, energy, flora and fauna
7.SS.LO11	Draws interrelationship between climatic regions and life of people living in different climatic regions of the world, including India
7.SS.LO12	Analyses factors that impact development of specific regions
7.SS.LO13	Provides examples of sources used to study various periods in history
7.SS.LO14	Relates key historical developments during medieval period occurring in one place with another.
7.SS.LO15	Explains the relationship between livelihood patterns and the geographical condition of the area inhabited, e.g., tribes, nomadic pastoralists and <i>banjaras</i> .
7.SS.LO16	Analyses socio-political and economic changes during medieval period
7.SS.LO17	Analyses administrative measures and strategies for military control adopted by different kingdoms, e.g., the Khaljis, and Tughluqs, Mughals, etc.
7.SS.LO18	Draws comparisons between policies of different rulers
7.SS.LO19	Describes distinctive developments in style and technology used for construction of temples, tombs and mosques with examples.
7.SS.LO20	Analyses factors which led to the emergence of new religious ideas and movements (<i>bhakti</i> and <i>sufi</i>)
7.SS.LO21	Draws inferences from poetry of <i>bhakti</i> and <i>sufi</i> saints about existing social order
7.SS.LO22	Explains the significance of equality in democracy
7.SS.LO23	Distinguishes between political equality, economic equality, and social equality
7.SS.LO24	Interprets social, political and economic issues in one's own region with reference to the right to equality
7.SS.LO25	Differentiates between local government and State government.

7.SS.LO26	Describes the process of election to the legislative assembly
7.SS.LO27	Locates one's own constituency on assembly constituency map of State/UTs and names local MLA
7.SS.LO28	Analyses the causes and consequences of disadvantages faced by women of different sections of the society.
7.SS.LO29	Identifies women achievers in different fields from various regions of India
7.SS.LO30	Illustrates contribution of women to different fields with appropriate examples
7.SS.LO31	Explains the functioning of media with appropriate examples from newspapers.
7.SS.LO32	Creates an advertisement
7.SS.LO33	Differentiates between different kinds of markets
7.SS.LO34	Traces how goods travel through various market places

Class VIII (Social Science)

Codes	Learning Outcomes
8.SS.LO1	Classifies different types of industries based on raw materials, size and ownership
8.SS.LO2	Describes major crops, types of farming and agricultural practices in her/his own area/ state
8.SS.LO3	Interprets the world map for uneven distribution of population
8.SS.LO4	Describes causes of forest fire, landslide, industrial disasters and their risk reduction measures
8.SS.LO5	Locates distribution of important minerals, e.g., coal and mineral oil on the world map
8.SS.LO6	Analyses uneven distribution of natural and human made resources on the earth
8.SS.LO7	Justifies judicious use of natural resources such as water, soil, forest, etc. To maintain developments in all areas

8.SS.LO8	Analyses the factors due to which some countries are known for production of major crops, e.g., wheat, rice, cotton, jute, etc., and locates these countries on the world map
8.SS.LO9	Draws interrelationship between types of farming and development in different regions of the world
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 sources, nomenclatures used for various regions of the Indian subcontinent and the broad developments
8.SS.LO11	Explains how the English East India Company became the most dominant power
8.SS.LO12	Explains the differences in the impact of colonial agrarian policies in different regions of the country like the 'indigo rebellion'
8.SS.LO13	Describes the forms of different tribal societies in the 19th century and their relationship with the environment.
8.SS.LO14	Explains the policies of the colonial administration towards the tribal communities
8.SS.LO15	Explains the origin, nature and spread of the revolt of 1857 and the lessons learned from it
8.SS.LO16	Analyses the decline of pre-existing urban centres and handicraft industries and the development of new urban centres and industries in India during the colonial period
8.SS.LO17	Explains the institutionalisation of the new education system in India
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
8.SS.LO19	Outlines major developments that occurred during the modern period in the field of arts
8.SS.LO20	Outlines the course of the Indian national movement from the 1870s till Independence
8.SS.LO21	Analyses the significant developments in the process of nation building

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
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)
8.SS.LO24	Differentiates between State government and Union government
8.SS.LO25	Describes the process of election to the Lok Sabha
8.SS.LO26	Locates one's own constituency on parliamentary constituency map of State/ UT and names local MP
8.SS.LO27	Describes the process of making a law. (e.g., Domestic Violence Act, RTI Act, RTE Act)
8.SS.LO28	Describes the functioning of the judicial system in India by citing some landmark cases
8.SS.LO29	Demonstrates how to file a First Information Report (FIR)
8.SS.LO30	Analyses the causes and consequences of marginalisation faced by disadvantaged sections of one's own region
8.SS.LO31	Identifies the role of Government in providing public facilities such as water, sanitation, road, electricity etc., and recognises their availability
8.SS.LO32	Describes the role of Government in regulating economic activities.

Class IX (Social Science)

Codes	Learning Outcomes
9.SS.LO1	Recognises and retrieves facts, figures and narrate processes for example,
9.SS.LO1.1	Locates places, states, union territories and other physical features on the map of India
9.SS.LO1.2	Recognises and describes different physical features, types of forests, seasons etc.

9.SS.LO1.3	Describes in important terms in Geography such as standard meridian, drainage basin, water divide, monsoon, weather, climate, flora, fauna, population density, etc.
9.SS.LO1.4	Estimates annual growth rate
9.SS.LO1.5	Defines simple economic terms such as poverty, literacy, unemployment, head count ratio, food security, exports and imports, etc.
9.SS.LO1.6	Lists various factors of production
9.SS.LO1.7	Recalls names, places, years, some important socio-political and economic events that changed India and the world such as American Revolution, French Revolution, Russian Revolution and Freedom Struggle in India
9.SS.LO1.8	Locates places of historical importance on maps
9.SS.LO1.9	Describes economies and livelihoods of a few social groups
9.SS.LO1.10	Describes political terms and concepts associated with democracy and dictatorship, such as, free and fair election, freedom of expression, independent judiciary, accountability, rule of law, etc.
9.SS.LO2	Classifies and compares events, facts, data, and figures, for example,
9.SS.LO2.1	Classifies physical features in the surroundings and compare them with physical features of other places;
9.SS.LO2.2	Compares different data such as population and rainfall;
9.SS.LO2.3	Compares the course of events leading to important revolutions in the world such as, French and Russian Revolutions;
9.SS.LO2.4	Distinguishes different types of governments operating across the world;
9.SS.LO2.5	Compares levels of poverty and unemployment across Indian states
9.SS.LO2.6	Compares different monarchies of contemporary times like United Kingdom, Saudi Arabia, and Bhutan
9.SS.LO3	Explains cause and effect relationship between phenomena, events and their occurrence for example,
9.SS.LO3.1	Examines factors causing pollution and their impact on people's lives;

9.SS.LO3.2	Explains factors affecting course of a river, climate, population distribution, flora and fauna of a region
9.SS.LO3.3	Explains the causes and effects of various revolutions
9.SS.LO3.4	Illustrates how different social groups coped with changes in the contemporary world and describe these changes
9.SS.LO3.5	Explains the difference between revolution and social change
9.SS.LO3.6	Outlines the formation of democratic governance in different countries of the world
9.SS.LO3.7	Explains the process of change in democracies
9.SS.LO3.8	Identifies democratic rights of Indian citizens and constitutional values such as, democracy, justice, liberty, equality, etc.
9.SS.LO3.9	Explains causes and impacts of economic issues such as poverty, landlessness and food insecurity
9.SS.LO3.10	Analyses the impact of social exclusion and vulnerability
9.SS.LO4	Analyses and evaluates information for example,
9.SS.LO4.1	Analyses different types of climate found in different regions of India and the world.
9.SS.LO4.2	Examines factors leading to deforestation
9.SS.LO4.3	Outlines or assesses the working of Indian Parliament and the judiciary.
9.SS.LO4.4	Analyses historical trends in important developmental indicators such as literacy and poverty
9.SS.LO4.5	Assesses the impact of important government welfare programmes which aimed at (a) poverty alleviation; (b) ensure food security; (c) generate self- employment; (d) provide healthcare facilities
9.SS.LO5	Interprets for example,
9.SS.LO5.1	Maps of river systems in India, physiograph, and population distribution
9.SS.LO5.2	Maps of movement of goods and people from India to the rest of the world
9.SS.LO5.3	Texts and symbols which stand for liberty, equality, and fraternity
9.SS.LO5.4	Cartoons

9.SS.LO5.5	Photographs
9.SS.LO5.6	Posters
9.SS.LO5.7	Newspaper clippings related to socio-political issues
9.SS.LO5.8	Pie and bar diagrams of data related to agricultural production, literacy, poverty and population
9.SS.LO6	Draws inter-linkages within Social Science, for example,
9.SS.LO6.1	Explains inter-relationship between various passes and sea ports in India for trade and communication since historical times
9.SS.LO6.2	Examines the geographical importance of electoral constituencies
9.SS.LO6.3	Analyses food security as a component of agriculture
9.SS.LO6.4	Analyses the linkages between population distribution and food security
9.SS.LO6.5	Explain inter-relationships among livelihood patterns of various social groups including forest dwellers, economic development, and environmental conservation.
9.SS.LO7	Identifies assumptions, biases, prejudices, and stereotypes about various aspects, for example,
9.SS.LO7.1	Texts
9.SS.LO7.2	News items
9.SS.LO7.3	Visuals
9.SS.LO7.4	Political analysis
9.SS.LO7.5	People in different geographical regions of India
9.SS.LO7.6	Important government welfare programmes
9.SS.LO8	Demonstrates inquisitiveness, enquiry i.e. pose questions related to-
9.SS.LO8.1	Geographical events such as the mechanism of monsoon and causes of natural disasters
9.SS.LO8.2	Impact of green revolution in India and their own area
9.SS.LO8.3	Legacy of French Revolution in India and the world

9.SS.LO9	Constructs views, arguments, and ideas on the basis of collected or given information, for example,
9.SS.LO9.1	People and their adaptation with different climatic conditions.
9.SS.LO9.2	Oral and written accounts of living historical legend makers.
9.SS.LO9.3	People as a resource
9.SS.LO10	Extrapolates and predicts events and phenomena for example,
9.SS.LO10.1	Weather
9.SS.LO10.2	Pollution and diseases
9.SS.LO10.3	Famine and poverty
9.SS.LO11	Illustrates decision-making and problem solving skills for example,
9.SS.LO11.1	Mitigating the impact of water pollution
9.SS.LO11.2	Conservation of resources
9.SS.LO11.3	Problem of food shortage
9.SS.LO11.4	Avoid hunger and famines in India
9.SS.LO11.5	Deciding on the appropriateness of resources in historical events and developments
9.SS.LO12	Shows sensitivity and appreciation skills for example,
9.SS.LO12.1	Empathises with differently abled and other marginal sections of the society such as Scheduled Tribes
9.SS.LO12.2	Appreciates political diversity
9.SS.LO12.3	Appreciates cultural diversity
9.SS.LO12.4	Appreciates religious diversity
9.SS.LO12.5	Recognises language diversity
9.SS.LO12.6	Recognises social diversity
9.SS.LO12.7	Empathises with the people who were affected by wars, holocaust, natural and human-made disasters

9.SS.LO12.8	Recognises how physical and mental violence leads to immense suffering of human beings
9.SS.LO12.9	Demonstrates or exhibits sense of citizenship such as, observing hygiene and cleanliness, punctuality, follow rules, etc.

Class X (Social Science)

Codes	Learning Outcomes
10.SS.LO.1	Recognises and retrieves facts, figures and narrate processes for example
10.SS.LO1.1	Identifies different types of soil, minerals, renewable and non-renewable energy resources, etc.
10.SS.LO1.2	Locates areas or regions known for production of coal, iron ore, petroleum, rice, wheat, tea, coffee, rubber and cotton textile on the map of India.
10.SS.LO1.3	Defines important terms in Geography such as resource, renewable and non-renewable resources, subsistence agriculture, plantation, shifting agriculture, environmental protection, and environmental sustainability.
10.SS.LO1.4	Defines basic Economic terms associated with economic development such as, human capital, sustainable development, gross domestic product, gross value added, per capita income, human development index, multinational company, foreign trade, liberalisation and foreign investment.
10.SS.LO1.5	Lists different forms of money and sources of credit, rights of consumers
10.SS.LO1.6	Recalls names, places, dates and people associated with some important historical events and developments such as the French Revolution, nationalism, industrialisation, globalisation, and urbanisation
10.SS.LO1.7	Defines terms and concepts such as nationalism, colonialism, orientalism, democracy, <i>satyagraha</i> , and liberty.
10.SS.LO1.8	Defines important terms such as federalism, diversity, religion, political party

10.SS.LO2	Classifies and compares events, facts, data and figures for example,
10.SS.LO2.1	Classifies types of resources, minerals, farming for example, subsistence and commercial farming
10.SS.LO2.2	Compares areas growing rice and wheat on the map of India
10.SS.LO2.3	Compares visuals such as the <i>image of Bharatmata</i> with the image of Germania
10.SS.LO2.4	Compares European nationalism with anti-colonial nationalism in countries such as India, South America, Kenya, Indo China
10.SS.LO2.5	Compares per capita income of some important countries
10.SS.LO2.6	Differentiates consumer rights
10.SS.LO2.7	Classifies occupations and economic activities into sectors using different criteria
10.SS.LO2.8	Compares the powers and functions of state and central government in India
10.SS.LO2.9	Classifies national and regional political parties in India
10.SS.LO2.10	Explains the terms used in political discussions and their meaning for example, Gandhian, communist, secularist, feminist, casteist, communalist, etc.
10.SS.LO3	Explains cause and effect relationship between phenomena, events and their occurrence for example,
10.SS.LO3.1	Explains factors responsible for production of different crops in India
10.SS.LO3.2	Explains industries and their impact on environment
10.SS.LO3.3	Explains the cause and effect between different historical events and developments such as, the impact of print culture on the growth of nationalism in India
10.SS.LO3.4	Examines the impact of technology on food availability.
10.SS.LO3.5	Assesses the impact of the global transfer of disease in the pre-modern world in different regions of the world for example, in the colonisation of America
10.SS.LO3.6	Analyses the impact of overuse of natural resources such as ground water and crude oil

10.SS.LO3.7	Analyses the change in sectoral composition of gross domestic product
10.SS.LO3.8	Analyses the consequences of dependence on different sources of credit
10.SS.LO3.9	Explains the policies and programmes of different political parties in the states of India
10.SS.LO4	Analyses and evaluates information for example,
10.SS.LO4.1	Assesses the impact of conservation of natural resources on the life of people in any area in view of sustainable development
10.SS.LO4.2	Analyses indigenous or modern methods of conservation of water, forests, wildlife, and soil.
10.SS.LO4.3	Explains victories and defeats of political parties in general elections
10.SS.LO4.4	Evaluates the various suggestions to reform democracy in India
10.SS.LO4.5	Analyses texts and visuals such as, how symbols of nationalism in countries outside Europe are different from European symbols
10.SS.LO4.6	Assesses the impact of MNREGA, role of banks as a source of credit
10.SS.LO4.7	Assesses the impact of globalisation in their area, region, and local economy.
10.SS.LO4.8	Analyses the contribution of different sectors to output and employment
10.SS.LO5	Interprets for example,
10.SS.LO5.1	Maps
10.SS.LO5.2	Texts
10.SS.LO5.3	Symbols
10.SS.LO5.4	Cartoons
10.SS.LO5.5	Photographs
10.SS.LO5.6	Posters
10.SS.LO5.7	Newspaper clipping
10.SS.LO5.8	Climatic regions
10.SS.LO5.9	Changes in maps brought out by various treaties in Europe

10.SS.LO5.10	Sea and land links of the trade from India to West Asia, South East Asia and other parts of the world
10.SS.LO5.11	Pie and bar diagrams related to gross domestic product, production in different sectors and industries, employment and population in India
10.SS.LO6	Draws interlinkages within Social science
10.SS.LO6.1	Analyses changes in cropping pattern, trade and culture
10.SS.LO6.2	Explains why only some regions of India are developed
10.SS.LO6.3	Analyses the impact of trade on culture
10.SS.LO6.4	Shows the linkages between economic development and democracy
10.SS.LO7	Identifies assumptions, biases, prejudices or stereotypes about various aspects, for example,
10.SS.LO7.1	Region
10.SS.LO7.2	Rural and urban areas
10.SS.LO7.3	Food habits
10.SS.LO7.4	Gender
10.SS.LO7.5	Language
10.SS.LO7.6	Idea of development
10.SS.LO7.7	Voting behaviour
10.SS.LO7.8	Caste
10.SS.LO7.9	Religion
10.SS.LO7.10	Democracy
10.SS.LO7.11	Political parties
10.SS.LO7.12	Marginalised and differently abled groups
10.SS.LO7.13	Globalisation and industrialisation
10.SS.LO7.14	The notion of progress and modernity
10.SS.LO8	Demonstrates inquisitiveness, enquiry, for example, pose questions related to the—

10.SS.LO8.1	Concentration of industries in certain areas
10.SS.LO8.2	Scarcity of potable water
10.SS.LO8.3	Role of women in the nationalist struggles of different countries
10.SS.LO8.4	Various aspects of financial literacy
10.SS.LO8.5	Working of democracy from local to national level
10.SS.LO9	Constructs views, arguments and ideas on the basis of collected or given information, for example,
10.SS.LO9.1	Natural resources and their impact on cultural diversity of any region
10.SS.LO9.2	Historical events and personalities
10.SS.LO9.3	Economic issues such as, economic development and globalisation
10.SS.LO9.4	Definitions commonly available in textbooks for various economic concepts
10.SS.LO9.5	Methodology used to estimate gross domestic product, poverty and size of the organised/unorganised sector
10.SS.LO10	Extrapolates and predicts events and phenomena, for example,
10.SS.LO10.1	Predicts the impact of pollution of water, air, land and noise on human health.
10.SS.LO10.2	Predicts natural disasters due to deforestation.
10.SS.LO10.3	Infers and extrapolates from situations such as how artists and writers nurture nationalist sensibilities through art, literature, songs and tales.
10.SS.LO10.4	Come out with answers creatively on the issue: (a) if India stops importing petroleum crude oil; (b) if multinational companies are closed; (c) the nature of employment in India in 2050; (d) what would happen if all schools and hospitals in India are privatised?
10.SS.LO11	Illustrates decision making / problem solving skills, for example,
10.SS.LO11.1	Comes out with solutions to the following in one's own area such as,: (a) problems related to agriculture and transport, (b) generate employment opportunities, improve access to credit for low income families and (c) assesses how certain developments in colonial India were useful for both colonisers as well as nationalists in

	different fields such as, literature, transportation and industries.
10.SS.LO12	Shows sensitivity and appreciation skills, for example,
10.SS.LO12.1	Empathises with differently abled and other marginal sections of the society such as forest dwellers, refugees and unorganised sector workers
10.SS.LO12.2	Appreciates political diversity
10.SS.LO12.3	Appreciates cultural diversity
10.SS.LO12.4	Appreciates religious diversity
10.SS.LO12.5	Recognises social diversity
10.SS.LO12.6	Empathises with the people who were affected by displacement, extremism and natural as well as human-made disasters; Indian indentured labourers working in different countries such as, Caribbean and Fiji.

Class IX (Health & Physical Education)

Codes	Learning Outcomes
9.HE.LO1	Identifies factors affecting health and well-being.
9.HE.LO2	Explores the relationships between endurance activity choices (running, skipping, swimming etc.) and sufficient hydration.
9.HE.LO3	Analyses factors affecting growth and development during adolescence period.
9.HE.LO4	Explains the need of nutritious food as pertinent to health
9.HE.LO5	Lists appropriate foods to provide adequate energy, eating at appropriate times in relation to physical activity as preventive measures.
9.HE.LO6	Exhibits sensitivity toward individual differences in different types of games and sports.
9.HE.LO7	Demonstrates neuromuscular coordination during games and sports.
9.HE.LO8	Identifies various opportunities available in the area given such as career perspectives, funds and so on.

9.HE.LO9	Exhibits good organisational ability/ skills with discipline during sports day and athletics meets, adventure sports, cricket, chess, weightlifting, etc.
9.HE.LO10	Exhibits potential skills in games and sports of their choice.
9.HE.LO11	Records and documents the performance in various games, sports and other physical activities.
9.HE.LO12	Performs yogic activities, cooperative games, and student invented games for holistic health.
9.HE.LO13	Displays sportsmanship, group leadership and ethics with special reference to team games.
9.HE.LO14	Displays responsible behaviour, interpersonal relationship and applies life skills (such as communication, problem solving / persuading, assertiveness, etc).
9.HE.LO15	Acquaints with rules and regulation of the games and sports.
9.HE.LO16	Collaborates with peers, respects both genders and actively participates in group and individual activities.
9.HE.LO17	Displays different ways to manage stress and aggression.
9.HE.LO18	Demonstrates the use of first-aid during common injuries or CPR.
9.HE.LO19	Exhibits self-discipline /self-control among them during various games and sports activities.

Class X (Health & Physical Education)

Codes	Learning Outcomes
10.HE.LO1	Explains the effects of games, sports and yogic activities on various body systems.
10.HE.LO2	Measures body parameters such as pulse rate, height, body weight, girth using correct procedure.
10.HE.LO3	Appreciates achievements and contribution of various personalities in the field of game, sports and yoga including special needs sportspersons
10.HE.LO4	Establishes linkages of games and sports learning with other subject areas.

10.HE.LO5	Appreciates indigenous and local areas games
10.HE.LO6	Display different ways to manage stress and aggression.
10.HE.LO7	Participates in the games and sports by following the rules including indigenous games.
10.HE.LO8	Uses concepts and applications of games, sports and yoga in the learning of various subjects.
10.HE.LO9	Identifies sports facilities and equipment in the school and the community.
10.HE.LO10	Displays leadership qualities with special reference to planning, contributing, and resource mobilisation in games and sports meet organization and administration.
10.HE.LO11	Plans diet for healthy living of adolescents.
10.HE.LO12	Performs and practice <i>Anulom / Vilom Pranayama</i> (Alternate Nostril Breathing) and <i>kriya</i> and meditation.
10.HE.LO13	Applies first aid principles and survival skills during injuries and emergency.
10.HE.LO14	Applies safety measures in different situation.
10.HE.LO15	Explains the role of education in health promotion.
10.HE.LO16	Expresses responsible behaviour regarding substance misuse

Class IX (Art Education)

Art Education (Visual Art)	
Codes	Learning Outcomes
9.AEV.LO1	Identifies 2D art forms (2- dimensional art; sketching, drawing & painting, printing, graphic designing) and 3D (3-dimensional art; clay modeling, crafts, sculpture, construction work etc.) in visual arts.
9.AEV.LO2	Explains the elements of Visual Arts (line, shape, form, texture, colour, composition and perspective).
9.AEV.LO3	Appreciates beauty in nature; colours, form, light & shades, different textures and natural forms; work of artists /artisans and beauty in man-made objects.
9.AEV.LO4	Explores with different methods and material such as clay, water colours and poster colour paints, coloured pencils & crayons, etc.
9.AEV.LO5	Identifies tools, equipment and materials used in different art forms under visual arts.
9.AEV.LO6	Recognises contemporary, folk and regional styles in visual art forms.
9.AEV.LO7	Appreciates different art forms- painting, sculpture, photograph, graphic, craft, etc.
9.AEV.LO8	Reflects on the work of artists and artisans critically.
9.AEV.LO9	Explains the beauty of man- made designs of objects.
9.AEV.LO10	Documents visit(s) to the museums, artist studios, galleries, interactions with the artists and artisans and their exhibitions, fairs and festivals.
9.AEV.LO11	Appreciates and applies painting skills and styles of traditional and folk painters to create new paintings.
9.AEV.LO12	Uses creative skills while planning an art activity, identifying resources and composing art expression.
9.AEV.LO13	Creates art works and communicates emotions skillfully and artistically through selected medium of art.
9.AEV.LO14	Applies artistic and aesthetic sensibility in day-to-day life.

9.AEV.LO15	Displays concern for safe use and maintenance of tools and equipment.
9.AEV.LO16	Maintains art material, art work and artifacts with sensitivity.
9.AEV.LO17	Demonstrates different values such as, cooperation, team work, caring and sharing, discipline, compassion for nature and animals, respect for others, appreciation for cultural diversity and cultural heritage.

Art Education (Music)	
9.AEM.LO1	Distinguishes the varied types of sounds, both musical and non-musical
9.AEM.LO2	Reproduces the sound through vocal music or by playing musical instruments
9.AEM.LO3	Identifies voice of musicians
9.AEM.LO4	Identifies sounds of musical instruments.
9.AEM.LO5	Classifies art forms under the category of visual and performing (music, dance and theatre) arts.
9.AEM.LO6	Appraises the interrelation of all art forms (performing arts, visual Arts)
9.AEM.LO7	Appreciates the contributions of different artists and artisans in the society (an inclusive concept).
9.AEM.LO8	Performs basics even notes of Music (<i>Shuddha, Komal, Tivra</i>), creates several permutations and combinations by combining notes along with varied rhythmic structures, sings in different scales, sings classical compositions and classical music based compositions.
9.AEM.LO9	Explains basic technical terms and concepts of Classical Music. Listens, discusses and artistically analyses various types of recorded musical presentations.
9.AEM.LO10	Identifies contemporary, traditional, folk, regional and classical styles in music.
9.AEM.LO11	Appreciates different types of music, musicians, art and artists.
9.AEM.LO12	Performs traditional music effectively

9.AEM.LO13	Communicates skillfully and effectively, content, theme, emotions etc. through different types sound modulation through voices or musical instruments.
9.AEM.LO14	Distinguishes and demonstrates patterns used to express units of different <i>talas</i> , rhythmic patterns and compositions
9.AEM.LO15	Distinguishes categories of musical instruments
9.AEM.LO16	Applies technique and creates patterns in playing at least one instrument. It will give the pitch sense, concept of ' <i>Naad</i> ' and ' <i>Sruthi</i> '.
9.AEM.LO17	Composes rhythmic patterns, creates hand and foot movements, facial expressions, expresses through varied pitches and tones, props, costumes.
9.AEM.LO18	Demonstrates creative skills while planning, composing, using available resources and in selection of themes.
9.AEM.LO19	Performs songs in tune and proper rhythm with facial expression, hand and foot movements, use props and costumes.
9.AEM.LO20	Reflects and compares musical expressions of oneself with that of others.
9.AEM.LO21	Applies artistic and aesthetic sense in day-to-day life.
9.AEM.LO22	Appreciates the contribution of musicians, India's cultural heritage with diversity by understanding various art forms, artists and artisans of different States/UTs.
9.AEM.LO23	Expresses through multimedia resources like Powerpoint presentations, editing through moviemaker in groups to share with peers.
9.AEM.LO24	Shows sensitivity towards safe and proper use of materials, musical instruments, tools and equipment.
9.AEM.LO25	Applies different values such as cooperation, team work, sharing, empathy, discipline.
9.AEM.LO26	Demonstrates self-confidence.

Art Education (Dance)

9.AED.LO1	Identifies rhythm, movement and mood (gentle, brisk, harsh)
9.AED.LO2	Performs and imitates the rhythmic movements observed.
9.AED.LO3	Identifies body as an instrument of dance.
9.AED.LO4	Describes the concept of <i>Avartan</i> or rhythmic cycle.
9.AED.LO5	Distinguishes different dance forms in terms of body language, costume, makeup, language of music, etc.
9.AED.LO6	Identifies different kinds of dances.
9.AED.LO7	Identifies sounds of musical instruments used in dance.
9.AED.LO8	Classifies art forms under the category of visual and performing (Music, Dance and Theatre arts.)
9.AED.LO9	Appraises the inter-relation of all art forms viz. performing arts, visual arts etc.
9.AED.LO10	Appreciates the contributions of different artists and artisans in the society (inclusive concept).
9.AED.LO11	Performs the dance form learnt along with all its regional elements.
9.AED.LO12	Appreciates the dance performance of artists and artisans critically.
9.AED.LO13	Defines and identifies <i>talas</i> (rhythmic patterns)
9.AED.LO14	Performs footwork in different <i>layas</i> ; understands different <i>talas</i> .
9.AED.LO15	Identifies and performs basic technique (movement and <i>mudras</i>).
9.AED.LO16	Exhibits different movements, expressions in a dance form
9.AED.LO17	Demonstrates a traditional repertoire in the chosen dance form.
9.AED.LO18	Performs the dance form learnt, communicates content, theme and emotions effectively.
9.AED.LO19	Appreciates dance as an art form, artists and artisans of different dance form.
9.AED.LO20	Composes rhythmic patterns; and demonstrates creative skills while planning, composing and using available resources.
9.AED.LO21	Reflects upon the dance expressions of peers as well as on one's own
9.AED.LO22	Applies artistic and aesthetic sense gained from dance in day-to-day

	life.
9.AED.LO23	Expresses the information gained from interaction with artists or from different sources (print and media).
9.AED.LO24	Connects the past and present scenario of the evolution of dance.

Art Education (Theatre)	
9.AET.LO1	Expresses through drama the activities related to rituals, festivals or any other important celebration and occasion
9.AET.LO2	Expresses the gathered experiences through verbal and non-verbal communication skills.
9.AET.LO3	Recognises nature in its varied manifestations and gets connected to it.
9.AET.LO4	Expresses verbally and non-verbally attributes of nature.
9.AET.LO5	Narrates life situations: drama is integrally related to situations in life, in facing conflicts, solving problems, and for playful enjoyment.
9.AET.LO6	Communicates that theatre has its own language comprising of some basic categories: verbal, non-verbal, visual, auditory, sensual, emotive, creative writing.
9.AET.LO7	Analyses how the different parts of our body can be used for expression.
9.AET.LO8	Analyses how multimedia or puppetry plays a big role in presentation of thought process in drama.
9.AET.LO9	Appreciates different types of play and playwrights.
9.AET.LO10	Analyses scenes, characters, situations and their connection to real life situations.
9.AET.LO11	Demonstrates the skill of voice modulation.

Class X (Art Education)

Art Education (Visual Art)

Codes	Learning Outcomes
10.AEV.LO1	Differentiates 2D art forms (2 dimensional art; sketching, drawing and painting, printing, graphic designing) and 3D (3 dimensional art; clay modeling, crafts, sculpture, construction work etc.) in visual arts.
10.AEV.LO2	Explains the elements of Visual Arts (line, shape, form, texture, colour, space, composition and perspective).
10.AEV.LO3	Appreciates beauty of nature; colours, form, light and shades, different textures and natural forms; and work of artists /artisans and beauty of man-made objects
10.AEV.LO4	Experiments with different methods and material of visual arts.
10.AEV.LO5	Identifies tools, equipment and materials used in different art forms under visual arts.
10.AEV.LO6	Recognises the contemporary, traditional, folk and regional styles in visual art forms.
10.AEV.LO7	Appreciates different art forms; painting, sculpture, prints, photographs, graphics, crafts etc.
10.AEV.LO8	Reflects on work of artists and artisans critically.
10.AEV.LO9	Explains the beauty of man-made designs of objects.
10.AEV.LO10	Documents visit(s) to the museums, artist studios and galleries, interactions with the artists and artisans and their live performances and exhibitions, fairs and festivals.
10.AEV.LO11	Appreciates and applies painting skills and styles of traditional and folk painters to create new paintings.
10.AEV.LO12	Uses creative skills while planning an art activity, identifying resources and composing art expressions.
10.AEV.LO13	Creates art work and communicates emotions skillfully and artistically through selected medium of art.
10.AEV.LO14	Applies artistic and aesthetic sensibility in day-to-day life.
10.AEV.LO15	Displays concern for safe use and maintenance of tools and equipment.
10.AEV.LO16	Maintains art materials, art works and artefacts with sensitivity.

10.AEV.LO17	Demonstrates different values, such as, cooperation, team work, caring and sharing, discipline, compassion for nature and animals, respect for others and appreciation for cultural diversity and cultural heritage.
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Art Education (Music)	
10.AEM.LO1	Recognises varied types of sounds, musical and non- musical.
10.AEM.LO2	Reproduces the sound through vocal music or any musical instruments.
10.AEM.LO3	Identifies different types of voices of musicians.
10.AEM.LO4	Identifies sounds of varied types of musical Instruments
10.AEM.LO5	Classifies different styles of singing and categories of musical instruments
10.AEM.LO6	Describes India's cultural heritage with its diversity
10.AEM.LO7	Develops videos of music, dance and theatrical presentation to understand and appreciate the contribution of artists, various forms of music and other arts.
10.AEM.LO8	Draws the inter-relation among various music and dance forms.
10.AEM.LO9	Understands the concept of background music related to stories in textbooks
10.AEM.LO10	Classifies varied types of musical instruments
10.AEM.LO11	Performs varied patterns of notes in different <i>Ragas</i> and rhythmic structures in different <i>talas</i> .
10.AEM.LO12	Classifies a few <i>ragas</i> by listening to the artists.
10.AEM.LO13	Performs percussive instruments by playing varied rhythmic patterns.
10.AEM.LO14	Differentiates contemporary, traditional, folk, regional and classical styles of music by understanding the different characteristics that distinguishes them from one another.
10.AEM.LO15	Performs traditional styles of music and dance.
10.AEM.LO16	Performs <i>Alankars</i> , sings classical compositions and classical music based compositions in varied rhythmic structures and scales

10.AEM.LO17	Performs <i>talas</i> on varied percussive instruments.
10.AEM.LO18	Performs traditional music.
10.AEM.LO19	Demonstrates <i>talas</i> in varied patterns.
10.AEM.LO20	Differentiates different types of rhythmic patterns to understand the importance of time cycle in music.
10.AEM.LO21	Differentiates different sounds and rhythmic patterns of western, carnatic and tribal music.
10.AEM.LO22	Appreciates the complex <i>bol</i> rendered by musicians in percussive instruments.
10.AEM.LO23	Identifies poems in the textbook and create musical dramas.
10.AEM.LO24	Creates music for poetry and background music for stories, etc.
10.AEM.LO25	Experiments with non-traditional methods and materials for producing rhythmic patterns, pitches and tones, props, costumes, movements, expressions, etc.
10.AEM.LO26	Communicates their emotions artistically with originality.
10.AEM.LO27	Uses creative skills while designing activities using available resources.
10.AEM.LO28	Identifies musical themes like deforestation and create music to carry the story forward.
10.AEM.LO29	Understands the inter-relation of music to dance, theatre, visual arts.
10.AEM.LO30	Communicates their emotions artistically with originality through selected art form(s).
10.AEM.LO31	Makes safe use of materials, musical instruments, tools and other equipment.
10.AEM.LO32	Reflects on artistic expressions (of self and of the peers) using critical thinking skills.
10.AEM.LO33	Appreciates performances and analyses performance of peers.
10.AEM.LO34	Analyses, reflects and practices.
10.AEM.LO35	Applies artistic and aesthetic sensibility in day-to-day life.

10.AEM.LO36	Practices different values such as, cooperation, team work, sharing, empathy, discipline, compassion, respect for diversity, in practicing arts and in day-to-day school activities.
10.AEM.LO37	Interprets and explains the art forms makes presentations through multimedia resources like Powerpoint presentations, editing through movie maker in groups to share the experience about artists and art forms, paving the way for systematic learning, preserving information, enhancing self-confidence of the learner and comprehending objectivity in life.

Art Education (Dance)	
10.AED.LO1	Develops readiness and tunes oneself as an instrument of dance.
10.AED.LO2	Demonstrates basic elements of classical dance forms learnt in Class IX.
10.AED.LO3	Recites the varied rhythmic patterns.
10.AED.LO4	Performs all the elements of dance style learnt in the class.
10.AED.LO5	Recites the varied rhythmic patterns along with hand gestures.
10.AED.LO6	Appreciates dance as an art form, artists and artisans of different dance forms.
10.AED.LO7	Presents a formal dance (duration 25-30 minutes.)
10.AED.LO8	Performs the dance learnt effectively communicating content, theme, emotions.
10.AED.LO9	Identifies classical, folk, traditional and contemporary styles of dance.
10.AED.LO10	Appreciates types of dance forms, art forms and artists.
10.AED.LO11	Composes rhythmic patterns.
10.AED.LO12	Demonstrates creative skills while planning, composing and using available resources.
10.AED.LO13	Reflects upon and studies own dance expressions as well as others.
10.AED.LO14	Applies artistic and aesthetic sense in day-to-day life.

10.AED.LO15	Expresses the information gained from interaction with artists or from different sources (print and media).
10.AED.LO16	Connects the past and present scenario of the evolution of dance.
10.AED.LO17	Makes efforts in the maintenance of the musical instruments used in the accompaniment of dance.

Art Education (Theatre)	
10.AET.LO1	Reflects upon the activities related to rituals.
10.AET.LO2	Understands the significance of festivals and their rituals.
10.AET.LO3	Creates a language to communicate enabling proper use of language simultaneously finding a meaning of the expression.
10.AET.LO4	Creates and conceives a drama in the classroom environment.
10.AET.LO5	Analyses and connects rituals to the present life situations and interprets them.
10.AET.LO6	Expresses characteristics of nature in its varied manifestations and analyses the connection.
10.AET.LO7	Reflects upon life situations - drama is integrally related to situations in life, and for playful enjoyment.
10.AET.LO8	Reflects upon the attributes of nature and environment and how it affects human beings.
10.AET.LO9	Expresses a scene by using objects/props used regularly by students.
10.AET.LO10	Creates a drama with the object.
10.AET.LO11	Creates and expresses spontaneously.
10.AET.LO12	Reflects and communicates that theatre has its own language of communication comprising of some basic categories: verbal, non-verbal, visual, auditory, emotive, imagination and fantasising.
10.AET.LO13	Analyses how the different parts of our body can be used for expression.
10.AET.LO14	Explains how mimes or puppetry requires keen observation of our surroundings and the people in our society.

10.AET.LO15	Reflects/observes and communicates how different events/ situations in life make a person's identity.
10.AET.LO16	Analyses how multimedia or puppetry plays a big role in presentations of thought process in drama.
10.AET.LO17	Appreciates different types of play and playwrights.
10.AET.LO18	Analyses scenes, characters, situations and their connection to real life situations.
10.AET.LO19	Understands the skill of voice modulation.
10.AET.LO20	Appreciates veteran theatre artists who have contributed to the evolution of theatre.
10.AET.LO21	Expresses how many states/regions of India have varied types of theatre which are practiced and liked by huge audience.