

## Month's Overview

Class: 5		1st February - 28th February 2022
Subject	Concepts and Skills	
EVS	<p><b>Project: Light, Shadows and Reflection</b></p> <p><b>Central Idea:</b> Light comes from various sources and its movement causes shadow, reflection, refraction and dispersion.</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Light comes from various natural and artificial sources</li> <li>• Obstruction to light depends on the type of material it passes through</li> <li>• Alignment of heavenly bodies casts shadows</li> <li>• Light gets reflected in different ways depending on the surface type</li> <li>• Light can bend depending on the medium</li> <li>• White light can split into seven colours</li> </ul> <p><b>Theme- Air</b></p> <p><b>Central Idea:</b> The atmosphere is composed of many layers significant for sustaining life on Earth.</p> <p><b>Lines of Inquiry:</b></p> <ul style="list-style-type: none"> <li>• Presence of different layers of atmosphere is significant for life on Earth</li> <li>• Troposphere and stratosphere play an important role</li> <li>• Ozone is required for safe living</li> <li>• Oxygen and carbon dioxide cycles are two essential cycles to maintain life forms</li> <li>• Atmosphere is polluted by human activities</li> </ul>	

**ENGLISH****Phonics and Vocabulary**

- Recognise common letter strings in words pronounced differently
- Use dictionaries efficiently and carry out IT spell checks
- Collect synonyms and opposites and investigate shades of meaning
- Use a thesaurus to extend vocabulary and the choice of words
- Investigate ways of creating opposites (e.g. 'un', 'im') and comparatives (e.g. 'er', 'est')
- Use effective strategies for learning new spellings and mis-spelt words
- Use known spellings to work out the spelling of related words
- Investigate the meaning and spelling of common prefixes (e.g. auto-, bi-, trans-)
- Identify unstressed vowels in polysyllabic words (e.g. carpet, interest)
- Identify unfamiliar words, explore definitions and use new words in context
- Investigate the origin and appropriate use of idiomatic phrases.
- Discuss metaphorical expressions and figures of speech
- Investigate patterns in the use of single and double consonants (e.g. full / ful)

**Grammar and Punctuation**

- Practise proofreading and editing writing for clarity and correctness.
- Understand conventions of Standard English
- Place full stops correctly at the end of complex sentences.
- Use a wider range of adjectives (qualitative, interrogative, emphasizing) and adverbs (degree, frequency, interrogative, reason, affirmation and negation) to add details
- Learn to differentiate between Active and passive voice and use them appropriately
- Use tenses accurately in narratives spanning several time frames

## **Reading**

- Read widely and explore the features of different genres (poetry, fiction & non-fiction).
- Locate information confidently and efficiently from different sources
- Skim-read to gain overall sense of a text and scan for specific information
- Develop note taking to extract key points and to group and link ideas
- Identify the point of view from which a story is told
- Explore the features of texts which recount events and experiences (e.g. diaries)
- Analyse openings and compare the structure of different stories
- Consider how characters are presented, and their different perspectives
- Interpret imagery, adding to understanding of the text beyond the literal

## **Writing**

- Review, revise and edit writing in order to improve it, using IT as appropriate
- Choose words and phrases carefully to convey feeling and atmosphere
- Map out writing to plan structure of the response (e.g. paragraphs, sections and chapters)
- Describe events and convey opinions with increasing clarity
- Record ideas, reflections and predictions about books (e.g. in a reading log)
- Make notes for different purposes using simple abbreviations
- Understand the use of notes in writing in your own words
- Evaluate own and others writing

**MATHS****Number Sense**

- Multiply fraction by a whole number
- Multiply two or more fractions or mixed numbers
- Solve problems involving comparing, addition, subtraction, multiplication of fractions or mixed numbers
- Find the Highest Common Factor and Lowest Common multiple using prime factorisation and Common division method
- Demonstrate the understanding of and use of decimals upto 3 decimal places, including place value and expanded form
- Convert fractions into decimals and vice versa
- Express common fractions as decimals
- Compare decimals upto 3 decimal places and arrange decimals in ascending and descending order
- Add and subtract decimals up to 3 decimal places with and without regrouping.

**Measurement**

- Estimate and measure perimeter of a rectangle, square or a triangle
- Find area of rectangular or square region using any strategy

**Geometry**

- Use geometric instruments for measuring and drawing angles, line segments and lines.
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- Understand and use angle measure in degrees
- Classify the different kinds of triangles, understand their properties (scalene, isosceles, equilateral, acute, obtuse, and right triangles) and construct them
- Identify the different types of polygons and their properties

	<p><b>Data handling</b></p> <ul style="list-style-type: none"><li>● Read information on given bar graph (single and double), tally chart and pictograph</li><li>● Solve sums based on bar graph</li><li>● Create a bar graph, tally chart or a pictograph from the given data</li></ul>
<p><b>HINDI</b></p>	<p><b>Listening and speaking</b></p> <ul style="list-style-type: none"><li>● Describe events and convey opinions with increasing clarity</li><li>● Shape and organise ideas clearly when speaking.</li><li>● Ask questions to develop ideas and extend understanding</li><li>● Report back to a group, using notes and present findings about a topic studied</li><li>● Prepare and present an argument to persuade others to a point of view</li></ul> <p><b>Grammar</b></p> <ul style="list-style-type: none"><li>● Understand the difference between proverb and idioms</li><li>● Understand homophones and their usage in language</li><li>● Identify and use one word for a group of words rhyming words gender and vachan</li><li>● Give Grammatically correct answers</li></ul> <p><b>Reading</b></p> <ul style="list-style-type: none"><li>● Read widely and explore the features of different genres (poetry, fiction &amp; non-fiction).</li><li>● Identify the point of view from which a story is told</li><li>● Interpret imagery, adding to understanding of the text beyond the literal</li><li>● Skim-read to gain overall sense of a text and scan for specific information</li></ul>

	<p><b>Writing</b></p> <ul style="list-style-type: none"> <li>• Write character sketches (based on lessons or stories), using details to capture the reader's imagination</li> <li>• Write any article independently by presenting an explanation or point of view in ordered points</li> <li>• Write small essays (150 words), and small poems</li> <li>• Choose words and phrases carefully to convey feeling and atmosphere while writing on their experiences</li> </ul>
<p><b>ICT</b></p>	<p><b>Skills</b></p> <ul style="list-style-type: none"> <li>• Be able to understand the concept of software</li> <li>• Be able to understand the concept of Internet</li> </ul>
<p><b>GUJARATI</b></p>	<p><b>Listening and speaking</b></p> <ul style="list-style-type: none"> <li>• Ask questions to develop ideas and extend understanding</li> <li>• Listen purposefully in a range of contexts (questions, instructions, discussions, stories, audios, etc.)</li> </ul> <p><b>Grammar</b></p> <ul style="list-style-type: none"> <li>• Give grammatically correct answers</li> </ul> <p><b>Reading</b></p> <ul style="list-style-type: none"> <li>• Read aloud according to all matras, appropriate punctuation, pronunciation and expression</li> <li>• Read widely and explore the features of different genres (poetry, fiction &amp; non-fiction)</li> </ul> <p><b>Writing</b></p> <ul style="list-style-type: none"> <li>• Write correct sentences while following grammatical rules</li> </ul>

## List of Vocabulary for the Coming Month

Light  
Shadow  
Reflection  
Refraction  
Inclined plane  
Reflected ray  
Parallel ray  
Inverted  
Dispersion  
Lateral inversion  
Image  
Diffraction  
Rainbow  
Concave  
Concave  
Wind  
Gale  
Storms  
Thunderstorm  
Exosphere  
Mesosphere  
Meteor  
Thermosphere  
Stratosphere  
Troposphere  
Ozone  
Respiration  
Oxygen Cycle  
Carbon Cycle  
Chlorofluorocarbon  
Least Common Multiple  
Highest Common Factor  
Prime numbers  
Composite numbers  
Factorisation  
Percentage  
Area  
Perimeter  
Length  
Reciprocal  
Breadth

Rotational  
Reflectional  
Symmetry  
Isosceles  
Scalene  
Equilateral