

**Upcoming Theme's Overview: Class 5**

**Theme Name and Number: Project 2- Light, Shadows and Reflection**

**Theme Dates: 9<sup>th</sup> January to 10<sup>th</sup> February 2023**

**Central Idea:** Light comes from various sources and its movement causes shadow, reflection, refraction and dispersion.

**Lines of Inquiry:**

- Light comes from various natural and artificial sources.(Form)
- Obstruction to light depends on the type of material it passes through(Form)
- Alignment of heavenly bodies cast shadows(Causation)
- Light gets reflected in different ways depending on the surface type(Connection)
- Light can bend depending on the medium(Change)
- White light can split into seven colors(Change)

**English Text Name :** Just A Train Ride Away - Mini Srinivasan

Week No.	EVS	English	Maths	Hindi	ICT	Gujarati/French
<b>Week 1</b>	<ul style="list-style-type: none"> <li>• Discussion on light</li> <li>• Shadow activity</li> <li>• Questions related to reflections</li> <li>• Phase 1 web</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction to the theme</li> <li>• Vocabulary words</li> <li>• Predicting the text</li> <li>• Reading the text for gist</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Number Sense-</b> Decimals, manipulate fractions and convert it to decimals</li> <li>• <b>Geometry-</b> Vertically opposite angles, adjacent angles</li> </ul>	<ul style="list-style-type: none"> <li>• Introduce to the chapter - 'Mahadani Karna'</li> <li>• Hard words from the chapter</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction to Digital photography</li> <li>• Composition, light and focus</li> </ul>	<p><b>Gujarati</b></p> <ul style="list-style-type: none"> <li>• Story : 'Chor Pakadai Gayo' (Gulal 2)</li> <li>• Dishao ane updishao na nam</li> </ul> <p><b>French</b></p> <ul style="list-style-type: none"> <li>• Poem 'Les rues de la vehicle'</li> <li>• Classroom manners in French</li> </ul>
<b>Week 2</b>	<ul style="list-style-type: none"> <li>• Introduction to light</li> <li>• Materials - Experiment in Physics lab</li> <li>• Features of light</li> <li>• Light travels in a straight line</li> </ul>	<ul style="list-style-type: none"> <li>• Reading for details</li> </ul> <p>Chapter name: Discontent, Something begins to happen, Going Away, Night Watch, Time Pass's story</p> <ul style="list-style-type: none"> <li>• Comprehension through</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Number Sense-</b> Rigour of fractions and decimals</li> <li>• <b>Measurement-</b> area, perimeter, converting lengths, estimation</li> </ul>	<ul style="list-style-type: none"> <li>• Read the Chapter and make some sentences according to the chapter</li> <li>• Write Q.A. in notebook</li> </ul>	<ul style="list-style-type: none"> <li>• Working with Master slide in powerpoint presentation</li> </ul>	<p><b>Gujarati</b></p> <ul style="list-style-type: none"> <li>• Names of vehicles</li> <li>• Ek vachan-bahu vachan, virodhi shabd, samanarthe shabd (Will be introduced as and when needed)</li> <li>• Story Related to project</li> </ul> <p><b>French</b></p> <ul style="list-style-type: none"> <li>• Family members</li> </ul>

		discussion of questions				<ul style="list-style-type: none"> <li>• Family tree</li> <li>• My family- small paragraph</li> </ul>
<b>Week 3</b>	<ul style="list-style-type: none"> <li>• Dispersion of light through prism</li> <li>• Field trip to Vikram Sarabhai Centre</li> <li>• Features of a shadow and exploring their queries about a Shadow</li> <li>• Making and working of Pinhole camera</li> </ul>	<ul style="list-style-type: none"> <li>• Reading for details Old cooking pots, Migration, Kolkata, Waking up, The Search, Parting for now</li> <li>• Comprehension through discussion of questions</li> <li>• Introduction of Active and Passive voice part 2</li> <li>• Exercises on conversion of Active to Passive and Passive to Active</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Number Sense-</b> Mixed bag</li> <li>• <b>Data Handling-</b> reading and interpreting double bar graph</li> </ul>	<ul style="list-style-type: none"> <li>• Project work on given topic like- 'Prakash, Pratibimb' and reflection (Group activity)</li> </ul>	<ul style="list-style-type: none"> <li>• Working with Master slide in powerpoint presentation</li> </ul>	<p><b>Gujarati</b></p> <ul style="list-style-type: none"> <li>• Community helpers in Gujarati</li> <li>• Paragraph writing on community helpers</li> </ul> <p><b>French</b></p> <ul style="list-style-type: none"> <li>• French festival</li> <li>• Favourite festival</li> </ul>

<p><b>Week 4</b></p>	<ul style="list-style-type: none"> <li>• Eclipse formation</li> <li>• What is reflection and reflection through different surfaces</li> <li>• Lateral Inversion/Properties of Image formed on a plain mirror</li> <li>• Types of mirror</li> </ul>	<ul style="list-style-type: none"> <li>• Performance Task: Diary entry</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Number Sense-</b> Rigour of subtraction of mixed fractions, short division</li> <li>• <b>Measurement-</b> Area and perimeter</li> </ul>	<ul style="list-style-type: none"> <li>• Exercise of workbook</li> <li>• Discuss the workbook</li> </ul>	<ul style="list-style-type: none"> <li>• Software-classification of software</li> </ul>	<p><b>Gujarati</b></p> <ul style="list-style-type: none"> <li>• Project related word building</li> <li>• Story:'Nakalchi Golu' (Gulal 2) &amp; Related grammar</li> </ul> <p><b>French</b></p> <ul style="list-style-type: none"> <li>• Numbers : 11 to 100</li> <li>• counting</li> </ul>
<p><b>Week 5</b></p>	<ul style="list-style-type: none"> <li>• Preparation of model</li> <li>• Preparation for culmination</li> <li>• Phase 3 web making and reflections</li> <li>• Display</li> </ul>		<ul style="list-style-type: none"> <li>• <b>Number Sense-</b> word problems of percentage</li> <li>• <b>Geometry-</b> Volume</li> <li>• <b>Data Handling-</b> Plotting double bar graph</li> <li>• Performance task-To calculate amount of solar energy generated in the campus</li> </ul>	<ul style="list-style-type: none"> <li>• Softboard activity according to the theme</li> <li>• Revision</li> </ul>	<ul style="list-style-type: none"> <li>• Software-classification of software</li> </ul>	<p><b>Gujarati</b></p> <ul style="list-style-type: none"> <li>• Soft board activity</li> <li>• Project preparation</li> </ul> <p><b>French</b></p> <ul style="list-style-type: none"> <li>• Numbers will continue</li> </ul>

**List of Vocabulary for - Light, Shadows and Reflection**

**EVS Vocabulary**

Light  
Shadow  
Reflection  
Refraction  
Inclined plane  
Reflected ray  
Parallel ray  
Inverted  
Lateral inversion  
Concave  
Convex  
Umbra  
Penumbra  
Eclipse

**English Vocabulary**

Contentment  
Gloomy  
Gratified  
Vague  
Uncouth  
Despair  
Nonchalantly  
Benign  
To mutter

Growl  
Exaggerated  
Grinning  
Scrutiny  
Nonplussed  
touting  
Fidgeting  
Tenderly  
Nagging  
Coaxing  
Clamour  
Clammy  
Volatile  
Snotty  
Doggedly  
Rummage  
Tarnished  
Incredibly  
Snoopy  
Salvage  
Impudent  
Belching  
Din  
Decrepit  
Dilapidated  
Resemblance  
Lanky  
Spruce  
Erstwhile  
Maneuver

Congeaed.

Twaddle

To leave something in rags and tatters

To have one's heart in one's mouth

**Maths Vocabulary**

Least Common Multiple

Highest Common Factor

Prime numbers

Composite numbers

Factorisation

Percentage

Area

Perimeter

Length

Reciprocal

Breadth

Rotational

Reflectional

Symmetry

Isosceles

Scalene

Equilateral

**A note for parents:** You can reinforce the above vocabulary for children by ensuring that they understand the meaning of these words and its usage meaningfully, in different contexts. Children may be able to also read and write most of these words - although they are not expected to know the spellings of all of the words from the list.

## Section II - Holistic Development

Holistic Development Area	To be covered...
Art and Design	<ul style="list-style-type: none"> <li>● Shading techniques (hatching, cross-hatching, stippling, circulumism)</li> <li>● Tonal value in art</li> <li>● Shadow drawing</li> </ul>
Sports	<ul style="list-style-type: none"> <li>● <b>Athletics:</b> Game discipline, fitness activities, running, long jump, Students will learn about "Fit India Test"</li> <li>● <b>Importance fitness test:</b> Testing is an important part of the screening process as it gives one an accurate picture of fitness. (students will know about their fitness level)</li> <li>● <b>Karate:</b> Judo techniques, punches and kicks, defense techniques with KUMITE Training</li> <li>● <b>Football:</b> Defending, Dribbling - practice of finishing, redirecting the ball, push pass and instep pass Stages of development in fitness</li> </ul>
Enrichment Clusters - Performing Arts	<p><b>Project Title: Dance Performance and Production for School's Annual Day</b></p> <ul style="list-style-type: none"> <li>● Identification of elements from music and drama.</li> <li>● Detailing of the script using the elements.</li> <li>● Visualization and practicing the performance.</li> <li>● Learning to prepare a feedback form.</li> <li>● Preparing for their work display.</li> </ul>
Enrichment Clusters- Home Economics	<p><b>Project Title: Experimenting with baking at school and home</b></p> <ul style="list-style-type: none"> <li>● Practically understanding baking</li> </ul>



	<ul style="list-style-type: none"> <li>• Baking cookies, brownie, cupcakes, tea cakes</li> <li>• Learning techniques of baking</li> </ul>
<b>Self-Enrichment</b>	<p><b>Topic: Peer pressure, Gender and Body Image</b></p> <ul style="list-style-type: none"> <li>• Navigating through peer pressure</li> <li>• Setting boundaries for respectful, healthy friendships</li> <li>• Examining gender roles and stereotypes</li> <li>• Learning to cultivate the attitude of body positivity</li> </ul>
<b>Assembly, Events, Celebrations, House Activities</b>	<ul style="list-style-type: none"> <li>• <b>Assembly:</b> <ul style="list-style-type: none"> <li>○ Class Presentations by Classes 6A, 6B</li> <li>○ EC-Project Culmination performance class 7,8</li> </ul> </li> <li>• <b>Special Whole School Assembly on:</b> <ul style="list-style-type: none"> <li>○ Uttarayan Celebration</li> <li>○ Republic Day</li> </ul> </li> <li>• <b>House Activity:</b> <ul style="list-style-type: none"> <li>○ Activities related to STEAM</li> <li>○ Activities on Cooking Challenge</li> </ul> </li> </ul>