

Upcoming Theme's Overview: Class 4

Theme Name and Number: Project 2- Machines

Theme Dates: 16th January to 18th February 2023

Central Idea: We need different kinds of simple and complex machines to make our life easier.

Lines of Inquiry:

- Machines work on different principles (work, force, motion and friction) **(Function)**
- Machines are invented and created for various uses **(Causation)**
- Impact of machines on human life **(Change)**
- How Simple machines are used to develop complex machines **(Connection)**
- Work, force and energy are related **(Connection)**
- Sources of energy **(Form)**

English Text Name : Nick And Tesla's High Voltage Danger Lab - Steve Hockensmith and Bob Pflugfelder

Week No.	EVS	English	Maths	Hindi	ICT
Week 1	<ul style="list-style-type: none"> • Introduction of the topic- Machines • Purpose of machines • Different types of machines 	<ul style="list-style-type: none"> • Warmer: Introduction of the project • Pre-teach vocabulary (Chapter 1-6) • Predicting the text 	<ul style="list-style-type: none"> • Number Sense- Word problems of HCF and LCM, division • Geometry- Coordinates, measuring angles using protractor 	<ul style="list-style-type: none"> • Introduce to the chapter -Isaac Newton • Hard words from the chapter 	<ul style="list-style-type: none"> • The Internet: <ul style="list-style-type: none"> - Being a good digital citizen - Staying safe online
Week 2	<ul style="list-style-type: none"> • Characteristics of simple machines • Introduction of simple machines- 1st class lever • Introduction of simple machines-2nd and 3rd class lever 	<ul style="list-style-type: none"> • Begin reading Chapter 1 • Reading Chapter 2 and 3 • Comprehension questions • Independent reading tasks (Chapter 4,5,6) 	<ul style="list-style-type: none"> • Number Sense- multiplication of fractions, addition and subtraction of fractions • Geometry- identify types of angles 	<ul style="list-style-type: none"> • Read the Chapter and make some sentences according to the chapter • Write questions and answers in notebook 	<ul style="list-style-type: none"> • Online educational games: <ul style="list-style-type: none"> ○ http://www.abcya.com/nouns_and_verbs.htm
Week 3	<ul style="list-style-type: none"> • Introduction of simple machines-Wheel and axle • Introduction of simple machines-inclined 	<ul style="list-style-type: none"> • Pre-teach vocabulary (Chapter 7-12) • Reading Chapter 7-10 • Independent reading tasks 	<ul style="list-style-type: none"> • Number Sense- Rounding off numbers to nearest 10, 100 • Measurement- Perimeter and area • Geometry- 	<ul style="list-style-type: none"> • Project work on given topic like-Gurutvakars han bal, bhaap ka engine etc.(Group activity) • Continue- 	<ul style="list-style-type: none"> • Online educational games: <ul style="list-style-type: none"> ○ http://www.abcya.com/antonyms_synonyms_homonyms.htm

	<p>plane, screw, wedge</p> <ul style="list-style-type: none"> • Introduction of simple machines-pulley 	<p>(Chapter 11-12)</p> <ul style="list-style-type: none"> • Comprehension questions 	<p>Coordinates</p>	<p>Project work on a given topic like-Gurutvakars han bal, bhaap ka engine etc. (Group activity)</p>	
Week 4	<ul style="list-style-type: none"> • Maintenance of machines and invention in machines • Complex machines • Concept of work, force and energy 	<ul style="list-style-type: none"> • Pre-teach vocabulary Chapter 13-16 • Reading Chapter 13-16 • Comprehension questions • Summarise chapter wise the important details • Tenses 	<ul style="list-style-type: none"> • Number Sense-Patterns, addition/ subtraction of mixed fractions, finding patterns • Performance task-Timeline on machines • Revision and rigour for angles, area and perimeter 	<ul style="list-style-type: none"> • Exercise of workbook • Discuss the workbook 	<ul style="list-style-type: none"> • Online educational games: <ul style="list-style-type: none"> ○ https://www.ches.com/play/computer
Week 5	<ul style="list-style-type: none"> • Reflection of learning • Preparation of project display • Culmination 	<ul style="list-style-type: none"> • Tenses • Synonyms • Performance task: Students will research and write biographies on some great inventors and scientists 	<ul style="list-style-type: none"> • Revision 	<ul style="list-style-type: none"> • Revision 	<ul style="list-style-type: none"> • Revision

List of Vocabulary for - Machines

EVS Vocabulary

Machines

Simple

Complex

Lever

Pulley

Wheel

Axle

Inclined Plane

Screws

Wedge

Force

Work

Gravity

Friction

Newton

Energy

Fulcrum

Screwdriver

English Vocabulary

Subdued

Keepsake

Trombone

Ominously

Reclusive

Inspire
Cautiously
Wonderment
Warily
enunciating
Eccentric
Pudgy
Dubious
Exiled
Voracious
sullenly
Sneered
Imposing
Skeptically
Reluctantly
Noncommittal
Surreptitious
Wheezed
Veered
Void
Careening
Triumphantly
Skullduggery
Glowered

Sarcastic

Menace

Improvised

Jabbering

Grim

Intensity

Disposable

Unconvinced

Gruff

Instinctively

harsh

Impressed

Anonymously

Traumatized

Maths Vocabulary

Factorization

Equivalent fractions

Simplest form

LCM

Liter

Milliliter

HCF

Area

Perimeter

Angles

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"> • Texture making with different techniques and observing texture from your surroundings • Landscape making with different textures • Ball painting and straw painting in integration with EVS PROJECT
Sports	<ul style="list-style-type: none"> • Athletics: Game discipline, fitness activities, running, long jump, Students will learn about "Fit India Test" • Importance fitness test: 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) • Karate: Judo techniques, punches and kicks, defense techniques with KUMITE Training • Football: Defending, Dribbling - practice of finishing, redirecting the ball, push pass and instep pass Stages of development in fitness
Interest Centers - Performing Arts	<p>Project Title: Dance Performance and Production for School's Annual Day</p> <ul style="list-style-type: none"> • Learning the Choreography on the song for Annual Day. • Discussions on costumes, props, and makeup for the performance • Improvising and practicing the choreography • Introduction to the new project

<p>Self-Enrichment</p>	<ul style="list-style-type: none"> ● Explore the processes of being a good listener to become active listeners in classrooms and other settings ● Reflect and understand the meaning and importance of Diversity
<p>Assembly, Events, Celebrations, House Activities</p>	<ul style="list-style-type: none"> ● Assembly: <ul style="list-style-type: none"> ○ Class Presentations by Classes 3A, 3B, 3C ● Special Whole School Assembly on: <ul style="list-style-type: none"> ○ Uttarayan Celebration ○ Republic Day ● House Activity: <ul style="list-style-type: none"> ○ Activities related to STEAM ○ Activities on International Mother Language Day