


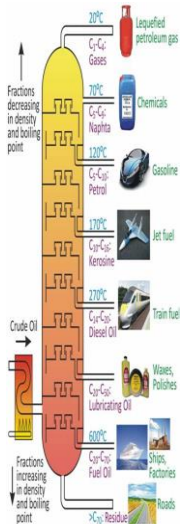
**Vidya Pratishthan's
Dr.Cyrus Poonawalla School (CBSE)**

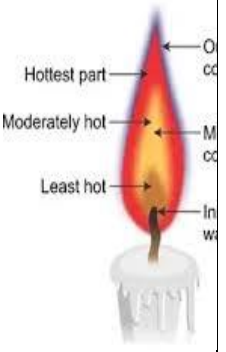
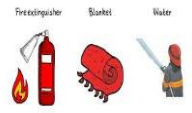
Sub-Science (Chemistry)


Annual Planning 2024-2025

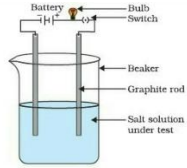
Std- VIII

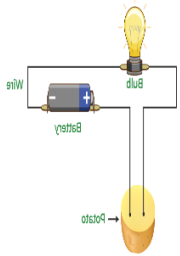
SR. No	Content/ Topic	Month	Learning Objectives	Expected Learning Outcomes	Activity/Practical	Teaching aid	21 st Century Skill/ Assessment
1.	Coal and Petroleum Types of natural Resources Coal	April	<p>Classify natural resources based on their ability to replenish in order to distinguish between inexhaustible and exhaustible natural resources</p> <p>Discuss the process of formation of coal to explain why coal is an exhaustible natural resource.</p> <p>List the useful by-products after processing coal to explain that natural resources can be used to obtain useful products other than fuel.</p>	<p>Differentiate between exhaustible and inexhaustible natural resources</p> <p>Describe how fossils are formed.</p> <p>Describe the process of carbonization</p> <p>Recognize the characteristics and uses of coal</p> <p>Locate the coal reserves in India</p>	<p>To make a list of various materials used in daily life and classify them as natural and man-made</p> <p>Experimental investigation of destructive distillation of coal</p>	<p>Process of coal formation on ICR</p> 	<p>Social skills Creative Thinking</p>

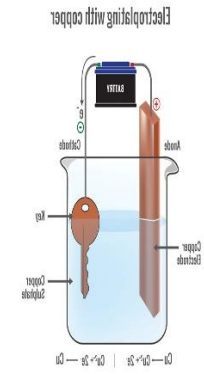
	<p>Petroleum</p> <p>Some Natural Resources are limited</p>	<p>june</p>	<p>Infer why gas, oil and water are found in a particular sequence at the location where petroleum is found, in order to explain that gas, oil their densities and ability to mix with each other</p> <p>Classify different constituents of petroleum according to their use in daily life in order to derive various by products besides fuel of petroleum that there is a large number of products obtained from petroleum other than fuel</p> <p>Discuss preventing energy crises</p>	<p>Recognize the characteristics of petroleum</p> <p>List the constituents of petroleum and their uses</p> <p>Analyze the environmental impact of burning of fossil fuels</p> <p>Recommend the measures to conserve fossil fuels</p>			
<p>2.</p>	<p>Combustion and Flame</p> <p>What is combustion</p>	<p>July, August</p>	<p>Explain the process of combustion in order to describe the role of fuel and oxygen in the process as necessary conditions for</p>		<p>1. Combustible and non-combustible substances</p>	<p>Different combustible and non-combustible substances</p>	<p>First Periodic test.</p>

	<p>Ignition temperature</p> <p>How to control fire</p> <p>Types of combustion</p>		<p>combustion to take place</p> <p>Define ignition temperature to explain why minimum temperature is required for a substance to catch fire.</p> <p>Compile and list the commonly known inflammable substances to explain that certain substance catch fire than others.</p> <p>List the conditions necessary for producing fire to discover how combustible materials can be prevented from catching the fire.</p> <p>Differentiate between the type of combustion taking place in gas stove, burning of phosphorus and bursting of firecrackers to assess rapid combustion,</p>	<p>Infer that different substances have different ignition temperature.</p> <p>Conclude that attainment of ignition temperature is essential for a substance to burn</p> <p>Name different types of fire extinguishers.</p> <p>Explain the role of water as a fire extinguisher</p> <p>Interpret that water cannot be used as a fire extinguisher in case of oil fires</p> <p>Explain the working of a soda-acid type fire extinguisher</p> <p>Explain different types of combustion</p>	<p>2. Combustion and ignition temp.</p> <p>3. Activity – Conditions needed for combustion</p> <p>Expt. – Structure of Flame</p>	<p>Candle, glass. ICR</p>  <p>HOW CAN WE CONTROL FIRE?</p> 	
--	---	--	---	--	---	---	--

3	<p>Flame</p> <p>Harmful effects of burning fuel</p> <p>Chemical Effects of Electric Current</p>	<p>September</p> <p>November, December, January</p>	<p>spontaneous combustion and explosion</p> <p>Explain the different parts of flame in order to explain why goldsmiths blow the outermost zone of a flame to melt gold and silver</p> <p>Compare the calorific value of commonly used fuel to examine fuel efficiency</p> <p>List harmful by-products of burning fuel to be aware of its harmful effects on individuals and environment such as global warming and acid rains</p>	<p>Give examples of different types of combustion. Define fuel</p> <p>Classify fuels</p> <p>List the calorific value of fuels</p> <p>Explain the negative impact of fuels on the environment</p> <p>Identify the various zones of a candle flame</p> <p>Discuss non-luminous zone Explain the luminous zone.</p> <p>Describe the inner zone</p> <p>Define the blue zone.</p>	<p>Practical Evaluation</p>		<p>First Term Exam</p>
---	---	---	---	--	-----------------------------	---	------------------------

	<p>Liquids Conduct Electricity</p>		<p>To test whether given liquid allows electric current to pass through it or not using a tester. Current will flow only if the circuit is complete.</p> <p>To find out the situation when the current does not flow though the liquid is conducting.</p>	<p>Some liquids are good conductors while some liquids are poor conductors of electricity. Most liquids that conduct electricity are solutions of acids, bases and salts.</p>	<p>Expt.- testing conduction of electricity in lemon juice.</p>		<p>Second Periodic Test</p>
	<p>Chemical Effects of Electric Current</p>		<p>The passage of electric current through a conducting solution causes chemical reactions. As a result bubbles of a gas, deposition of metal, on the electrodes change in colour may occur.</p>	<p>The passage of an electric current through a conducting liquid causes chemical reactions.</p>	<p>Expt.- Passing electric current through water.</p>		

	<p>Electroplating</p>		<p>What is Electroplating? Importance of Electroplating. To make list of materials which are electroplated. Different materials used for Electroplating.</p>	<p>The process of depositing a layer of any desired metal on another material by means of electricity is called electroplating.</p> <p>Revision</p>	<p>A simple circuit showing electroplating.</p>		<p>Second Term Exam</p>
--	-----------------------	--	--	---	---	---	-------------------------



--	--	--	--	--	--	--	--	--

Simple
circuit. Cell,
battery.

