

Name of the books : Basic Science

Name of the publisher: Bharti Bhawan

Unit I (Pre Mid-Term)

Duration	Content	Subject Enrichment Activity
01/04/2021 To 16/05/2021	Physics (a) Measurement (b) Motion Chemistry (a) Matter and its nature (b) Classification of material Biology (a) Food	Physics <ul style="list-style-type: none"> To measure common classrooms objects using cubit, palm, length etc. To identify motion of a given objects. Chemistry <ul style="list-style-type: none"> Collecting and grouping things on the basis of physical properties. Biology <ul style="list-style-type: none"> To check the presence of starch, fat and proteins.
Pre Mid- Term Exam (17/05/2021 – 27/05/2021)		
Unit II (Mid-Term)		
01/07/2021 To 01/09/2021	Chemistry (a) Clothes and fibres (b) Separation of mixtures Biology (a) Air – breathe in life Physics (a) Light	Chemistry <ul style="list-style-type: none"> An activity to compare burning of different types of clothes. Experiments to show: handpicking, magnetic separation of crystallization. Physics <ul style="list-style-type: none"> To show rectilinear propagation of light.. Biology <ul style="list-style-type: none"> To observe cheek cell, onion cell and stomata under micro scope. To show air contains $1/5$ O₂ and $4/5$ N₂ and other gaseous
Mid- Term Exam (02/09/2021 – 15/09/2021)		
Unit III (Post Mid-Term)		
16/09/2021 to 04/12/2021	Chemistry (a) A study of changes Biology (a) The living and the non living	Chemistry <ul style="list-style-type: none"> Experiment to study (a) charring of sugar (b) Exothermic changes Biology

	(b) Habitat and adaptation Physics (a) Electric circuit	<ul style="list-style-type: none"> Field tour to study and collect different types of flowers, leaves, roots and paste it on scrap book. To show presence of starch in leaf. Physics Activity to show open and closed circuit
Post Mid- Term Exam(04/12/2021-15/12/2021)		
Unit IV (Final Exam)		
16/12/2021 to 20/02/2022	Physics (a) Magnetism Biology (a) Water	Physics To show a suspended bar magnet always points in north south direction Biology To draw water cycle
Final Exam (03/03/2022 -15/03/2022)		

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01/04/2021 To 16/05/2021	<p>Physics (a) Heat + Supplementary material (Heat)</p> <p>Chemistry (a) Language of chemistry (b) Supplementary material (structure of an atom, valency chart)</p> <p>Biology (a) Obtaining and utilizing food</p>	<p>Physics</p> <ul style="list-style-type: none"> To show expansion in different objects <p>Chemistry</p> <ul style="list-style-type: none"> To prepare a table showing symbol atomic number & mass electronic configuration. Worksheet based on formula making by using valency chart. <p>Biology</p> <ul style="list-style-type: none"> To show green plants cannot make food without chlorophyll.
Pre Mid- Term Exam (17/05/2021 – 27/05/2021)		
Unit II (Mid-Term)		
01/07/2021 To 01/09/2021	<p>Physics (a) Electricity + supplementary material (Electricity & Charges in motion)</p> <p>Chemistry (a) Acids, bases and salts (b) Fibres from animals</p>	<p>Physics</p> <ul style="list-style-type: none"> To show electric components and draw their symbols. Experiment to study (a) effect of heat (b) magnetic

	<p>Biology (a) Transport and excretion</p>	<p>effect (c) strength of electromagnet.</p> <p>Chemistry Activity : To perform blue and red litmus paper test with various acids and basis. To explore absorption capacity of water in different fabrics.</p> <p>Biology</p> <ul style="list-style-type: none"> • • Observe stomata • To show function of xylem.
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Mid- Term Exam (02/09/2021 – 15/09/2021)

Unit III (Post Mid-Term)

<p>16/09/2021 to 04/12/2021</p>	<p>Physics (a) Light (b) Light supplementary</p> <p>Chemistry (a) Changes and reactions</p> <p>Biology (a) Reproduction in plants (b) Respiration in plants and animals.</p>	<p>Physics</p> <ul style="list-style-type: none"> • Experimental set up to demonstrate. <ul style="list-style-type: none"> - Conveying action of lens. - Dispersion of light <p>Chemistry</p> <ul style="list-style-type: none"> • Lab activity to study <ul style="list-style-type: none"> - Combination reaction - Displacement reaction - Sublimation - Charring of sugar <p>Biology</p> <ul style="list-style-type: none"> • Experimental set up to: Observe CO₂ released during respiration. • To show respiration in roots. • To study parts of flower.
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Post Mid- Term Exam(04/12/2021-15/12/2021)

Unit IV (Final Exam)

<p>16/12/2021 to 20/02/2022</p>	<p>Physics (a) Time motion and speed</p> <p>Biology (b) Soil</p> <p>Note : Chapter 18 Project based on Waste Management Revision</p>	<p>Physics Activity: To draw distance time graphs for uniform and non-uniform motion.</p> <p>Biology To explore water holding capacity of various types of soils.</p>
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Final Exam (03/03/2022 -15/03/2022)

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Unit I (Pre Mid-Term)

Duration	Content	Subject Enrichment Activity
01/04/2021 To 16/05/2021	Physics <ul style="list-style-type: none"> - Force and Pressure - Earthquakes Chemistry <ul style="list-style-type: none"> - Synthetic material - Structure of atom (Supplementary Material) Biology <ul style="list-style-type: none"> - Food Production - The Cell (upto Cell structure) 	Physics <ul style="list-style-type: none"> • To show that force of friction depends on the nature of surface in contact. • To show rolling friction is less than sliding friction. Chemistry <ul style="list-style-type: none"> • To design poster on the theme 'say no to plastics to discourage people from using plastic bags. Biology <ul style="list-style-type: none"> • To see the root nodular present in the leguminous plants and to write their function. • Prepare slides of onion peel and cheek cell and observe it under microscope.
Pre Mid- Term Exam (17/05/2021 – 27/05/2021)		
Unit II (Mid-Term)		
01/07/2021 To 01/09/2021	Physics <ul style="list-style-type: none"> - Sound - Electricity & Lightening Chemistry <ul style="list-style-type: none"> - Combustion and fuels - Supplementary material (structure of an atom) - Supplementary Material: Valency chart, colour chart, solubility chart, some important chemical reactions (1 – 10) - Name and chemical formulas of some important compounds (1 – 15) Biology <ul style="list-style-type: none"> - The Cell (contd...) - Microorganisms 	Physics <ul style="list-style-type: none"> • Assignment: To draw a structure of human ear. • Assignment : Hot questions based on topic (Earthquake) Chemistry <ul style="list-style-type: none"> • Experimental set up to study <ul style="list-style-type: none"> - Boiling of water in a paper cup Assignment <ul style="list-style-type: none"> - To draw diagrams of floating – dome type biogas plant Biology <ul style="list-style-type: none"> • Assignment : Draw diagrams of (a) E-coli, Rhizopus, AIDS Virus • Activity to observe bacteria that help in yogurt formation.

Mid- Term Exam (02/09/2021 – 15/09/2021)

Unit III (Post Mid-Term)

<p>16/09/2021 to 04/12/2021</p>	<p>Physics</p> <ul style="list-style-type: none">- Light and Vision- Light (Supplementary material) <p>Chemistry</p> <ul style="list-style-type: none">- Metals and non metals (some important chemical reaction (11-20), name and chemical formulae of some important compounds (16-26) :supplementary material) <p>Biology</p> <ul style="list-style-type: none">- Natural Resources- Conservation	<p>Physics</p> <p><i>Assignment</i></p> <ul style="list-style-type: none">• Draw a labelled diagram of human eye and describe how it works.• Ray diagrams related to concave and convex mirror. <p>Chemistry</p> <p><i>Activity :</i></p> <ul style="list-style-type: none">• To show reaction of most reactive metals like sodium and potassium with cold water.• To show displacement to hydrogen from acids. <p>Biology</p> <p><i>Assignment :</i></p> <ul style="list-style-type: none">• Some endangered animals and their habitat. <p><i>Activity</i></p> <p>To show how waste paper is recycled.</p>
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Post Mid- Term Exam(04/12/2021-16/12/2021)

Unit IV (Final Exam)

<p>16/12/2021 to 20/02/2022</p>	<p>Physics</p> <ul style="list-style-type: none">- Electricity (supplementary material) <p>Chemistry</p> <ul style="list-style-type: none">- Chemical effects of electric current <p>Biology</p> <ul style="list-style-type: none">- Pollution of air and water	<p>Physics</p> <p><i>Assignment :</i></p> <ul style="list-style-type: none">• Classify the given material according to turbo electric series. <p><i>Activity</i></p> <ul style="list-style-type: none">• To show how bodies are getting charged. <p>Chemistry</p> <p><i>Activity</i></p> <p>To show electroplating of coin with copper.</p> <p>Biology</p> <p><i>Assignment</i></p> <ul style="list-style-type: none">• Visit a water recycling unit and write a report about it.
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Final Exam (03/03/2022 -15/03/2022)