

**BASAVA INTERNATIONAL SHOOOL**  
**CLASS VI (2020-21)**  
**SCIENCE SYLLABUS BREAK UP**  
**NCERT SCIENCE VI**

Month	Chapter	Activities and Experiments
<b>APRIL</b>	CH- 1 Food : Where does it come from	*To identify the sources of various nutrients.
	CH- 2 Components of food	*To test the presence of various food components in different food samples.
<b>MAY</b>	CH-4 Sorting materials into groups	*To identify materials on the basis of their density, hardness and solubility. *To test the solubility of different substances. *To identify solute and solvent.
	CH-5 Separation of substances	*Sedimentation, decantation and hand picking.
<b>JULY</b>	CH-11 Light, Shadows and Reflections	*To study transparent, translucent and opaque objects and differentiate between them. *Making of a pinhole camera.
	CH-13 Fun with magnets	*To observe like poles repel and unlike poles attract. *To find out the direction with the help of magnetic compass.
<b>AUGUST</b>	CH-8 Body movements	*To study skeletal system. *Making 3D models of different joints.
<b>SEPTEMBER</b>	Revision	
<b>OCTOBER</b>	CH-9 The Living organisms and their surroundings	*To study growth – Germination of seed into plant. *To study response to the stimulus. *Measurement of distances using hand span and scale.
	CH-10 Motion and Measurement of Distances	*To measure length of a curved line. *To observe rectilinear motion and non- periodic motion.
<b>NOVEMBER</b>	CH-6 Changes Around Us	*To identify physical and chemical changes. *To study reversible and irreversible changes. *To identify conductors and insulators.
	CH-12 Electricity and circuits	*Making of a home made Torch.
<b>DECEMBER</b>	CH-7 Getting to know plants	*To observe different parts of a plant. *To study the structure of leaf. *To dissect a flower and observe its different whorls.
	CH-3 Fibre to fabrics	*To make weaving sample using paper strips. *Making of yarn from cotton fibre.
<b>JANUARY</b>	CH-15 Air around us	*To study soil contains air. *To study oxygen supports burning.
<b>FEBRUARY</b>	MOCK TEST AND REVISION	

**Summer Break: CH-14 Water**

**Winter Break: CH-16 Garbage in, Garbage out**

**BASAVA INTERNATIONAL SCHOOL**

**MONTHWISE SYLLABUS SESSION 2021-22**

**CLASS – VII SCIENCE NCERT**

<b>MONTH</b>	<b>CHAPTERS</b>	<b>ACTIVITIES</b>
April	Ch-1. Nutrition in plants Ch-2. Nutrition in animals	-To show sunlight is essential for photosynthesis.  -To show the growth of fungus on bread.  -To study the effect of saliva on starch.  -To detect four main types of taste.
May	Ch-5. Acids, Bases and Salts	-To identify an acid or base using litmus paper.  -To identify acid and base and determine its strength using universal indicator.  -To show neutralization.
July	Ch-7. Weather, Climate and Adaptations of Animals to Climate  Ch-10. Respiration in Organisms  Ch-9. Soil	-To observe the breathing rate under different conditions.  -To identify the gas we breathe out.  -To study water retention capacity of soil.  -To study the rate of percolation in different soils.  -To study the rate of absorption of water by soil.
August	Ch-4. Heat  Ch-13. Motion and Time  Ch-3. Fibre to Fabric	-To measure the temperature with the help of clinical thermometer.  -To observe the heat transfer by convection in water.  -To calculate one of the parameters if other two are given by using the formula, $time = distance/speed$ .  -To draw the distance time graph.  -To draw the life cycle of silk moth.
September	Half Yearly Exam	
October	Ch-6. Physical and Chemical Changes  Ch-11. Transportation in Animals and Plants	-To study the chemical change:  i) Burning of magnesium ribbon and testing magnesium oxide.  ii) Reaction between baking soda and vinegar.  -To obtain pure copper sulphate crystals from copper

		<p>sulphate powder.</p> <p>-To feel and count pulse in wrist.</p> <p>-To show transport of water through cells.</p> <p>To show evaporation in plants.</p>
November	<p>Ch-14. Electric Current and its Effects</p> <p>Ch-12. Reproduction in Plants</p>	<p>-To make an electromagnet.</p> <p>-To show that an electric bulb releases heat energy.</p> <p>-To show reproductive parts of a flower.</p>
December	<p>Ch-15. Light</p> <p>Ch-16. Water: A Precious Resources</p>	<p>-Role play (surveying the school as water detective).</p>
January	Ch-18. Wastewater Story	-To understand the Phytoid Plant installed in school.
February	Mock test and Revision	-

**Summer break:** Ch-8. Winds, Storms and Cyclones.

**Winter break:** Ch-17. Forests: Our Lifeline

## BASAVA INTERNATIONAL SCHOOL

### MONTHWISE SYLLABUS BREAKUP SESSION 2021-22

#### CLASS VIII – SCIENCE by NCERT

Month	Chapter	Activity
April	<p>1. Crop Production and Management</p> <p>11. Force and Pressure</p>	<p>-To differentiate between healthy and diseased seeds.</p> <p>-To study some factors which affect the growth of crops.</p> <p>- To observe the effects of more than one force on an object.</p> <p>-To observe the relation between area of contact and pressure applied.</p> <p>-To verify that liquids exert equal pressure at the same length.</p>

		-To verify that the pressure exerted by liquids increases with depth.
May	4. Metals and Non-metals  2. Microorganisms: Friends and Foe	-To study the physical properties of metals like hardness, sonorosity and conduction of heat.  -To study the chemical properties of metals.  - To grow bread mould and study it under the microscope.  - To study fermentation by yeast on dough.
July	7. Conservation of Plants and Animals  12. Friction  5. Coal and Petroleum	- To study conservation of forest and wildlife.  -To study different types of lubricants.  -Discussion in groups for alternate sources of energy.
August	8. Cell – Structure and Functions  13. Sound  6. Combustion and Flame	-To observe different types of plant and animal cells under microscope.  -To distinguish between the different types of sound produced by tuning forks of different frequencies.  -To listen to and distinguish the different kinds of sound produced by different music instruments.  -To study the characteristics of the different zones of a flame.  - Observation of different zones of a flame.
September	Half Yearly Exam	
October	9. Reproduction in Animals  14. Chemical Effects of Electric Current	-To observe slides of amoeba and hydra.  -To study the life cycle of a frog.  -To observe the chemical effect of a current.
November	16. Light  10. Reaching the Age of Adolescence	- To verify the laws of reflection of light.  - To study the nature of images formed by a plane mirror.  - To observe the formation of multiple images.
December	15. Some Natural	- To study types of charges and their interaction.

	Phenomena  17. Stars and the Solar System	<ul style="list-style-type: none"> <li>- Detection of charges using electroscope.</li> <li>- To study the working of a seismograph.</li> <li>- To study important facts about the planets and features of some constellations.</li> </ul>
January	Revision	
February	Mock Tests & Revision	

**Self Study Topics: Term I L3 - Synthetic Fibres and Plastics Term IIL18 - Pollution of Air & Water**

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**BASAVA INTERNATIONAL SCHOOL**  
**SYLLABUS BREAKUP SESSION 2021-22**  
**SUBJECT :CHEMISTRY, CLASS: IX**  
**BOOK: NCERT TEXT BOOK -SCIENCE**

<b>S No.</b>	<b>Month</b>	<b>Chapter</b>	<b>Activity</b>
1.	April	Ch-1:Matter in our surroundings	1. To observe and study the processes of condensation and sublimation
2.	May	Ch-1:Matter in our surroundings	1. To observe and study cooling caused by evaporation.
3.	July	Ch-2: Is matter around us pure	1. To prepare a true solution, suspension and colloid
4.	August	Ch-2: Is matter around us pure	1. To prepare mixture and compounds using suitable substances.
5.	September	• Revision & SA-I	
6.	October	Ch-3 Atoms and molecules	1. To Prepare a chart to show symbols and valencies of various elements
7.	November	Ch-3 Atoms and molecules	1. To Study Life History of John Dalton and postulates of Dalton's Atomic Theory.
8.	December	Ch-4 Structure of the atom	1. To prepare 3D models of various structures of atoms and draw comparisons.

9.	January	Ch-4 Structure of the atom	1. Make chart to show electron distribution in first twenty elements of periodic table.
10.	February	Revision	

**BASAVA INTERNATIONAL SCHOOL**  
**SYLLABUS BREAKUP SESSION 2020-21**  
**SUBJECT :BIOLOGY, CLASS: IX**  
**BOOK: NCERT TEXT BOOK -SCIENCE**

<b>S No.</b>	<b>Month</b>	<b>Chapter</b>	<b>Activity</b>
1.	April	Ch-5:The fundamental unit of life	1. To prepare temporary mounts of a)onion peel b)Human cheek cell
2.	May	Ch-6:Tissues	1. To Identify different tissues in plants and and draw their well labeled diagrams
3.	July	Ch-6: Tissues	1. To Identify different tissues in animals and draw their well labelled diagrams
4.	August	Ch-15 Improvement in food resources	1. To test the presence of starch in given food sample and presence of adulterant metanil yellow in dal
5.	September	• Revision & Half Yearly Examination.	
6.	October	Ch-7 Diversity in living organisms	1. To study the characteristics of • spirogyra/agaricus, moss/fern, pinus and angiosperms.

7.	November	Ch-7 Diversity in living organisms	1. To study external features of root ,stem, leaf, flower of monocot and dicot plants.
8.	December	Ch-13 Why do we fall ill	1. To Prepare a project report on various infectious diseases, their agents, prevention and control.
9.	January	Ch-14 Natural Resources	1. To study role of atmosphere in climate control and how greenhouse gases affect it.
10.	February	Revision	:

**BASAVA INTERNATIONAL SCHOOL**

**SYLLABUS BREAKUP SESSION 2020-21**

**SUBJECT :PHYSICS, CLASS: IX**

**BOOK: NCERT TEXT BOOK -SCIENCE**

S.No.	MONTH	UNIT	ACTIVITY
1.	APRIL	MOTION	To study the motion of a simple pendulum
2.	MAY	MOTION- Uniform circular	Plotting graphs of given situations(non-uniform or uniform motion)
3.	JULY	FORCE AND LAWS OF MOTION	To study the motion of different objects sliding down an inclined.( Group activity)
4.	AUGUST	GRAVITATION	To study the relative density of at least two materials denser than water
5.	SEPTEMBER	REVISION	
6.	OCTOBER	WORK AND ENERGY	
7.	NOVEMBER	WORK AND ENERGY	To calculate the potential energy of different objects and tabulate the result.( Group Activity)
8.	DECEMBER	SOUND	To study the velocity of a pulse in different strings
9.	JANUARY	SOUND	To verify the reflection of sound



10.	FEBRUARY	REVISION
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**BASAVA INTERNATIONAL SCHOOL**

**SYLLABUS BREAKUP SESSION 2021-22**

**SUBJECT :SCIENCE, CLASS: X**

**BOOK: NCERT TEXT BOOK -SCIENCE**

**CHEMISTRY**

S.No.	MONTH	CHAPTER
1.	APRIL-MAY	<ul style="list-style-type: none"> <li>• CHEMICAL REACTIONS AND EQUATIONS</li> <li>• ACIDS BASES AND SALTS</li> </ul>
2.	JULY	<ul style="list-style-type: none"> <li>• ACIDS BASES AND SALTS(CONTD.)</li> <li>• METALS AND NON-METALS</li> </ul>
3.	AUGUST	<ul style="list-style-type: none"> <li>• METALS AND NON-METALS (CONTD.)</li> </ul>
4.	SEPTEMBER	<ul style="list-style-type: none"> <li>• REVISION AND SA-1</li> </ul>
5.	OCTOBER	<ul style="list-style-type: none"> <li>• CARBON AND ITS COMPOUNDS</li> </ul>
6.	NOVEMBER	<ul style="list-style-type: none"> <li>• CARBON AND ITS COMPOUNDS</li> </ul>
7.	DECEMBER	<ul style="list-style-type: none"> <li>• PERIODIC CLASSIFICATION OF ELEMENTS</li> </ul>
8.	JANUARY	<ul style="list-style-type: none"> <li>• PERIODIC CLASSIFICATION OF ELEMENTS (CONTD.)</li> </ul>
9.	FEBRUARY	<ul style="list-style-type: none"> <li>• REVISION FOR SA-2</li> </ul>

## **BIOLOGY**

S.No.	MONTH	CHAPTER
1.	APRIL	LIFE PROCESSES
2.	MAY	LIFE PROCESSES
3.	JULY	CONTROL AND COORDINATION
4.	AUGUST	CONTROL AND COORDINATION
5.	OCTOBER	HOW DO ANIMALS REPRODUCE?
6.	NOVEMBER	HOW DO ANIMALS REPRODUCE?
7.	DECEMBER	HEREDITY AND EVOLUTION
8.	JANUARY	OUR ENVIRONMENT
9.	FEBRUARY	NATURAL RESOURCES
Activities as per CBSE syllabus		

## **PHYSICS**

S.No.	MONTH	CHAPTER
1.	APRIL	ELECTRICITY
2.	MAY	ELECTRICITY
3.	JULY	MAGNETIC EFFECT OF CURRENT
4.	AUGUST	SOURCES OF ENERGY
5.	OCTOBER	LIGHT: REFLECTION
6.	NOVEMBER	LIGHT: REFRACTION
7.	DECEMBER	HUMAN EYE & THE COLOURFUL WORLD
8.	JANUARY	HUMAN EYE & THE COLOURFUL WORLD
9.	FEBRUARY	REVISION
Activities as per CBSE syllabus		

