CBSE Class 6 Science Syllabus



	Questions	Key Concepts	Resources	Activities/ Processes
	1. Food Sources of food What are the various sources of our food? What do other animals eat?	Plant parts and animal products as sources of food; herbivores, carnivores, omnivores.	Examples of food from different parts of plants and of food from animals sources.	(Periods - 20) Germination of seeds such as mung, chick pea etc.; preparing a chart on food habits of animals and food culture of different regions of India.
יש	Components of food What is our food made up of? Why do we eat a variety of food?	Carbohydrates, fats, proteins, vitamins, minerals, fibres, their sources and significance for human health; balanced diet; diseases and disabilities due to food deficiencies.		Studying the variety of food in different regions in India; preparing a menu of balanced diet in the context of the diversity of foods eaten in different parts of the country. Classifying foods according to food components; test for starch, sugars, proteins and fats.
	grains after harvesting the wheat /rice crop? 2. Materials		Talking to some elders about practices after harvesting the crop; kit materials.	Discussion on threshing, winnowing, handpicking; experiments on sedimentation, filtration. Separating mixture of salt and sand. (Periods - 26)
	Materials of daily use What are our clothes	Different types of cloth	Sharing of prior	Whole class discussion.

Syllabus for Classes at the Elementary Level

138











				4
Questions	Key Concepts	Resources	Activities/ Processes	
made of? How did people manage when there were no clothes?	materials – cotton, wool, silk and synthetics. Development of clothing materials.	knowledge with parents and community. Archaeological and historical accounts.	Simple activities to distinguish among different types of cloth.	
Are some of our clothes made of materials obtained from plants? In what kinds of places do these plants grow? Which parts of the plants are used for making clothes? Different kinds of	Plant fibre, especially cotton and jute; production of cotton, jute and other locally available plant fibres; types of soil required for the growth of different fibrous plants.	Sharing of prior knowledge with parents and community.	Whole class discussion. Field survey/ collecting information on locally available plant fibres (coconut, silk cotton, etc.)	
materials What kinds of things do we see around us?	Grouping things on the basis of common properties.	Materials, kit items.	Collecting and grouping things on the basis of gross properties e.g. roughness, lustre, transparency, solubility, sinking/floating using prior knowledge, through experiments.	E
How things change/ react with one another In what ways do things change on being heated? Do they change back on being cooled? Why does a burning candle get shorter?	Some changes can be reversed and others cannot be reversed.	Prior knowledge, kit items.	Experiments involving heating of air, wax, paper, metal, water to highlight effects like burning, expansion/compression, change of state. Discussion on other changes which cannot be reversed – growing up, opening of a bud,	













139

	Questions	Key Concepts	Resources	Activities/ Processes
				ripening of fruit, curdling of milk.
	How much salt can be dissolved in a cup of water?	Solubility, saturated solutions. Amount of substance dissolving varies with temperature. At the same temperature amounts of different substances that dissolve varies.	Salt, sugar and other common substances, kit items.	Experiments for testing the solubility of commonly available substances. Experiments on the effect of heating and cooling on solubility. Comparison of solubilities of different substances using non-standard units (eg. spoon, paper cone).
	3. The World of the Living			(Periods - 36)
	Things around us		100	
אי	Are all things around us living? What is the difference between living and non-living? Are all living things similar? Do all living things move? Where do plants and animals live? Can we grow plants in the dark?	Living/non-living characteristics; habitat; biotic, abiotic (light, temperature, water, air, soil, fire)	Recollection of diversity of living organisms and the habitat where they live.	Listing of things around us, listing of characteristics after making observations say on size, colour, shape etc., categorisation; observations on habitat; observing germination of seeds, also observing under dark conditions; growth and development of domestic animals, hatching of birds' eggs etc., developing drawing skills.
	The habitat of the living			
	How does habitat affect	Habitat varies – aquatic,	Potted plants or seeds,	Listing the diverse set of
	plants and animals? How	deserts, mountains etc. –	pots, etc; thermometer,	living organisms around

140









Questions	Key Concepts	Resources	Activities/ Processes
			FIOCESSES
do fish live in water?	plants and animals show	any water plants, any	us; prepare herbarium
	adaptation; other plant	xerophytic plants,	specimens of different
	part modifications like	Information on desert and	leaves, plants; studying
	tendrils, thorns etc.	aquatic plants and animals.	modifications in plants and
	Animals in deserts and		animals; observing how
	water.		different environmental
			factors (water availability,
			temperature) affect living
			organisms;
Plants - form and			
function			
What is the structure and	Morphological structure	Plants, flowers, blade,	Studying plant parts -
function of various parts	and function of root,	hand lens.	types of stems, roots,
of the plants - stem, leaf	stem and leaves. Structure		leaves, seeds; experiment
and roots? How do	of the flower, differences.		to show conduction by
different flowers differ			stem, activity to show
from one another? How		11.	anchorage by roots,
does one study flowers?		, 29,	absorption by roots.
		1 1 9	Study of any flower,
		.0.	counting number of parts,
		No	names of parts, cutting
		V .	sections of ovary to
			observe ovules.
Animals - form and			
function			A 1 . 37
What is inside our bodies?	Structure and functions of	Observation of nature;	Activities to study X-rays,
How do animals move?	the animal body; Human	model of skeleton, X-rays	find out the direction in
Do all animals have bones	skeletal system, some	of arms or legs, chest,	which joints bend, feel the
in their bodies? How do fishes move? And birds	other animals e.g. fish,	hips, jaws, vertebral	ribs, backbone etc. Observation/ discussion
fly? What about snakes,	bird, cockroach, snail.	column (could be given in the textbook).	on movement and skeletal
snails, earthworms?		THE TEXTOON,	system in other animals.
onano, cartiiwomino:			oyotem in other ammais.













	Questions	Key Concepts	Resources	Activities/ Processes
	4. Moving Things, People and Ideas Moving How did people travel	Need to measure distance	Everyday experience;	(Periods - 12) Measuring lengths and
	from one place to another in earlier times? How did they know how far they had travelled? How do we know that something is moving? How do we know how	(length). Measurement of length. Motion as change in position with time.	equipment (scale etc.) to measure length. Stories for developing contexts for measuring distances.	distances. Observation of different types of moving objects on land, in air, water and space. Identification and discrimination of various
Ŋ	far it has moved?			types of motion. Demonstrating objects having more than one type of movement (screw motion, bicycle wheel, fan, top etc.) Observing the periodic motion in hands of a clock / watch, sun, moon, earth.
	5. How things work Electric current and circuits			(Periods - 28)
	How does a torch work?	Electric current: Electric circuit (current flows only when a cell and other components are connected in an unbroken loop)	Torch: cell, bulb or led, wires, key.	Activity using a bulb, cell and key and connecting wire to show flow of current and identify closed and open circuits. Making a switch. Opening up a dry cell.
	Do all materials allow current to flow through them?	Conductor, Insulator.	Mica, paper, rubber, plastic, wood, glass metal clip, water, pencil (graphite), etc.	Experiment to show that some objects (conductors) allow current to flow and others (insulators) do not.

142









Questions	Key Concepts	Resources	Activities/ Processes
Magnets What is a magnet?	Magnet.	Magnet, iron pieces.	Demonstrating how things are attracted by a magnet. Classification of objects into magnetic/non-magnetic classes.
Where on a magnet do things stick?	Poles of a magnet.	Magnet, iron pieces, iron filings, paper.	Activity to locate poles of a magnet; activity with iron filings and paper.
How is a magnet used to find direction?	A freely suspended magnet always aligns in a particular direction. North and South poles.	Bar magnet, stand, thread, compass.	Activities with suspended bar magnet and with compass needle.
How do two magnets behave when brought close to each other?	Like poles repel and unlike poles attract each other.	Two bar magnets, thread, stand.	Activities to show that like poles repel and unlike poles attract.
6. Natural Phenomena Rain, thunder and lightning		he	
Where does rain come from? How do clouds form?	Evaporation and condensation, water in different states. Water cycle.	Everyday experience; kit items.	Condensation on outside of a glass containing cold water; activity of boiling water and condensation of steam on a spoon. Simple model of water cycle. Discussion on three states of water.
Light Which are the things we can see through?	Classification of various materials in terms of transparent, translucent and opaque.	Previous experience, candle/torch/lamp, white paper, cardboard box, black paper.	(Periods - 26) Discussion, observation; looking across different materials at a source of light.













0

	Questions	Key Concepts	Resources	Activities/ Processes
	When are shadows formed? Do you get a shadow at night – when there is no light in the room, no moonlight or other source of light? What colour is a shadow?	A shadow is formed only when there is a source of light and an opaque material obstructs a source it. A shadow is black irrespective of the colour of the object.	Child's own experience, candle/torch/lamp, white paper, black paper, coloured objects.	Discussion; observing shadow formation of various objects of different shapes, and of same shape and different colours; playing and forming shadows with the hands in sunlight, in candle light, and in a well lit region during daytime; making a pinhole camera and observing static and moving objects.
Syllabus for Classes at the Elementary Level	On what kinds of surfaces can we see images? 7. Natural Resources	Reflecting surfaces; images are different from shadows.	Experience, objects with polished surfaces, mirror etc.	Observing differences between the image and the shadow of the same object.
	Importance of water What will happen to soil, people, domestic animals, rivers, ponds and plants and animals if it does not rain this year? What will happen to soil, people, domestic animals, plants and animals living in rivers and ponds, if it rains heavily?		Experience, newspaper reports.	Estimation of water used by a family in one day, one month, one year. Difference between need and availability. Discussion. Activity: plant growth in normal, deficient and excess water conditions.
	Importance of air Why do earthworms come out of the soil when it rains?	Some animals and plants live in water; some live on land and some live in	Experience.	Discussion.

Questions	Key Concepts	Resources	Activities/ Processes
	upper layers of soil; but all need air to breath/to respire.		



Waste		00	
Do you throw away fruit	Waste; recycling of waste	Observation and	Survey of solid waste
and vegetable peels and	products; things that rot	experience.	generation by households;
cuttings? Can these be re-	and things that don't.	He	estimation of waste
used? If we dump them	Rotting is supported by		accumulated (by a house/
anywhere, will it harm the	animals/animal and plant		village/colony etc.) in a
surroundings? What if we	products.		day, in a year; discussion
throw them in plastic			on 'what is waste'; Activity
bags?			to show that materials rot
			in soil, this is affected by
			wrapping in plastics.