

**INDIAN SCHOOL MUSCAT
MIDDLE SECTION
ANNUAL SYLLABUS 2019 – 2020
CLASS - 6**

SUBJECT :SCIENCE				
MONTH	TOPIC	SUB TOPIC	TEACHING AIDS	
			DIGITAL TOOLS (DS / Other Links)	OTHERS
APRIL	Ch. 4 Sorting materials into groups.	Objects around us Act 1, Act 2 Properties of materials. Act 3, Hardness, Act 4 Soluble or Insoluble, Act 5 Float or Sink, Transparency, Act 6 Review and test	https://edurev.in/studytube//c3e7c251-d1a2-4cb0-8875-2445ce5c05d1_v 1. https://www.youtube.com/watch?v=Ls_ki5BBnbk 2. https://byjus.com/ncert-solutions/ DS content- Properties of materials, Materials, Properties of materials etc	Notes Worksheet STEM: Sort materials according to their properties. (Articles in their pencil box)
		Can all changes be reversed Could there be other ways to bring a change Act 7, Review and test	<ul style="list-style-type: none"> https://www.youtube.com/watch?v=k1DVrPu1ixghtps://www.youtube.com/watch?v=BgM3e8YZxuc https://www.youtube.com/watch?v=M4GoGLwhVi4https://www.youtube.com/watch?v=xYLolf6OA0c&list=PLHOGBLPrsnMomgix5iplUgdduZFCxB2ns&index=8 • DS-can all changes be reversed?	PPT Activity Notes worksheet
	CH. 13 Fun with magnets	Introduction How magnets were discovered, Act 1, Magnetic & Non magnetic materials, Act 2 Act 3 ,Poles of magnet, Act 4	www.study.com/academy/magnets/6thgrade https://www.youtube.com/watch?v=7I6GE-3JnpQ	STEM-Pencil Levitation model

		Finding directions, Act 5		
MAY	CH. 13 Fun with magnets	Make your own magnet Act 6 Attraction and repulsion between magnets Few Cautions Review and test	https://www.youtube.com/watch?v=7I6GE-3JnpQ https://www.youtube.com/watch?v=yjSNU62kxZo www.makemegenious.com https://www.youtube.com/watch?v=Kx7FwUue87w https://www.youtube.com/watch?v=4I1WqXHkVgs https://www.youtube.com/watch?v=valsTSbPamY Introduction to magnetism, magnetic poles, Magnetic and non magnetic substances. .	Activity - Finding out poles of a magnet using magnetic compass Notes Worksheet
	CH.7 Getting to know plants	Introduction , Herbs , Shrubs and trees Act 1 Stem Act 2 Leaf Act 3 Revision for periodic test	https://www.youtube.com/watch?v=qb5Tju3Ggas https://www.youtube.com/watch?v=ODjAfDxThGU https://www.youtube.com/watch?v=y9hprlmck44	ACTIVITY Conduction of water by stem, Transpiration of leaves Revision
	CH.7 Getting to know plants	Act 4, Act 5, Root Act 6 , Act 7 , Act 8, Act 9, Flower Act 10 , Act 11	https://www.youtube.com/watch?v=y9hprlmck44 https://www.youtube.com/watch?v=hDda8bNfZ0Y https://www.youtube.com/watch?v=RMjC6qi8-zo https://www.youtube.com/watch?v=7G9Jozhr7H0 Destination success- Different types of plants	ACTIVITY DISSECTION OF FLOWER Notes Worksheet
	Getting to know plants CH.11 Light, shadows and reflections	Review Introduction Transparent, Translucent, Opaque objects, Act 1 What exactly are shadows? Act 2, Act 3, Act 4	https://www.youtube.com/watch?v=lLawYGDSyDs Luminous and Non-luminous objects (D.S) Transparent, translucent and opaque objects (D.S) https://www.youtube.com/watch?v=OiR2zkDHrLU Shadow and image, Factors affecting shape of a shadow, Pinhole-camera (D.S) https://www.youtube.com/watch?v=TIcoxK-uc	STEM- Pinhole camera and Periscope

SUMMER PROJECT

- FOOD AND GARBAGE:**
- 1) Where does food come from?
 - 2) Garbage in and Garbage out.

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JULY	Light, shadows and reflections	Pin Hole camera Act 5 Act 6 Rectilinear propagation of light Mirrors and reflection Act 7, Act 8 Review	Light travels in a straight line(D.S) https://www.youtube.com/watch?v=KZySuCB30Es Reflection of light (D.S) https://www.youtube.com/watch?v=fm_GAlrBuQ	Notes Worksheet
AUGUST	Ch.14 Water	Introduction, How much water do we use? Where do we get water from? Water cycle Loss of water by plants. How are clouds formed? Back to the ocean. What if it rains heavily?	https://www.youtube.com/watch?v=Wqh2xTl2ILQ Where do we get water from (D.S) https://www.youtube.com/watch?v=rTGEQYjZS5k https://www.youtube.com/watch?v=Re1E3dhZELk https://www.youtube.com/watch?v=al-do-HGulk Water cycle (3 videos on D.S) https://www.youtube.com/watch?v=dnL5LPil77M Rain(2 videos on D.S)	DISCUSSION
	Ch.14 Water	What happens if it does not rain for a long period? How can we conserve water? Rain water harvesting.	https://www.youtube.com/watch?v=-1cl0WuEmFI Rainwater Harvesting (D.S) https://www.youtube.com/watch?v=UTBQ50YDz7k	DISCUSSION Activity - Model of rainwater harvesting
	Ch. 15 Air around us	Review and test Introduction ,Act 1 Is air present everywhere around us? Act 2 What is air made of? Act 3 Act 4	https://www.youtube.com/watch?v=TbwfkiAXdeA https://www.youtube.com/watch?v=nbk_oyUzQ5s https://www.youtube.com/watch?v=mcUaokpfLGU • DS- Air around us, Air is present everywhere, What is air made up of, water vapour, oxygen, nitrogen and ca	PPT Stem - Making a wind vane and determine the direction of wind.

SEPTEMBER	Air around us	How does oxygen become available to plants and animals living in water and soil? Act 5, Act 6, Oxygen Cycle	<ul style="list-style-type: none"> • DS- Air around us, Air is present everywhere, What is air made up of?, water vapour, oxygen, nitrogen and carbon dioxide, dust and smoke, availability of oxygen, uses of air 	Revision
	REVISION FOR HALF YEARLY EXAM			
	MID TERM EXAM BEGINS 16TH SEPTEMBER			
OCTOBER	Ch.12 Electricity and circuits	Introduction, Electric cell Act 1, A bulb connected to an electric cell Electric circuit, Act 3	https://www.youtube.com/watch?v=a_FuqebS504 https://www.youtube.com/watch?v=oT5krVq9TsU DS-Electric current, conductors and insulators, Applications of conductors and insulators.	
	Electricity and circuits	Electric Switch, Act 4 Electric Conductors and Insulators, Review and test	DS-Electric current, conductors and insulators, Applications of conductors and insulators.	STEM- Make basic electric circuit. Testing whether they are conductors and insulators
	Ch.8 Body Movements	Introduction, Human body and its movements, Act 1, Ball and socket joint, Act 2, Pivotal Joint, Hinge joint, Act 3, Fixed joint, Act 4.	<ul style="list-style-type: none"> • Act 1, Ball and socket joint, Act 2 Joints and their types CBSE Class VI Science Lesson https://www.youtube.com/watch?v=eIYHsOMD1 	Making different joints using clay
	Body movements	Act 5, Gait of Animals – Earth worm, Act 6- Snail, Cockroach, Act 7 Birds, Fish, Act 8 How do snakes move? Review and test	https://www.youtube.com/watch?v=gKXri-LBH60 https://www.youtube.com/watch?v=jUs5ORILIUE <ul style="list-style-type: none"> • DS Body movements, Arms, legs and bones, Ball and socket joints, Body movements- back bone 	STEM- Structure of various joints in human body Notes Worksheet

	CH.2 Components of Food.	Introduction, Act 1, What do different food items contain? Act 2, Test for starch , test for protein Test for Fats.	DS-Balanced diet and deficiency diseases, tests for nutrients, Components of food.	
NOVEMBER	Components of Food	What do various nutrients do for our body? Act 3, Balanced diet , Deficiency diseases. Review and Test	DS-Balanced diet and deficiency diseases, tests for nutrients, Components of food.	STEM- Test for starch using iodine solution using different foods Protein test: using copper sulphate solution and sodium hydroxide solution. Fat test: crush different types of food in paper to test the presence of fat.
	Ch.5 Separation of substances	Introduction, Act 1 Methods of separation-Hand picking , Act 2 Threshing , winnowing , Act 3, Sieving, Act 4	https://www.youtube.com/watch?v=jlc4BU9_SpM https://www.youtube.com/watch?v=V5ep0-ojPGw DS_ Class 6/Animation/ Methods of separation youtube https://www.youtube.com/watch?v=e-2EoyDYamg	
	Separation of substances (contd)	Sedimentation Decantation and Filtration Evaporation Act 6, Use of more than one method	https://www.youtube.com/watch?v=jlc4BU9_SpM https://www.youtube.com/watch?v=V5ep0-ojPGw DS_ Class 6/Animation/ Methods of separation youtube https://www.youtube.com/watch?v=e-2EoyDYamg	ACTIVITY - Testing solubility, different

		of separation ,Act 7		methods to increase solubility
	Separation of substances (contd)	Can water dissolve any amount of the substance? Act 8,9,10 Review and test	youtube https://www.youtube.com/watch?v=e-2EoyDYamg	STEM- Separation Methods Notes Worksheet
DECEMBER	CH.3 Fibre to Fabric	Introduction, Variety in fabrics, Act 1,2 Fibre Act 3	https://www.youtube.com/watch?v=d6Xi7xHloeU https://www.youtube.com/watch?v=orKBbm9IJ1s https://www.youtube.com/watch?v=gj1NqBc9VxE	Activity
	CH.3 Fibre to Fabric	Some plant fibres- Jute, Cotton, Spinning cotton yarn , Act 4 Spinning cotton yarn , Act 4 Yarn to fibre	https://www.youtube.com/watch?v=d6Xi7xHloeU https://www.youtube.com/watch?v=orKBbm9IJ1s https://www.youtube.com/watch?v=gj1NqBc9VxE	STEM- Yarn spinning machine
		Weaving, Act 5 Knitting History of clothing materials. Review and test	https://www.youtube.com/watch?v=d6Xi7xHloeU https://www.youtube.com/watch?v=orKBbm9IJ1s https://www.youtube.com/watch?v=gj1NqBc9VxE	Notes Worksheet

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JANUARY	Ch.9 Living Organisms and their Surroundings	Introduction, Organisms and the surroundings where they live Act 1 , Habitat and Adaptation Act 2 Germination A journey through different habitats-Some terrestrial habitat. Desert, Mountain region	https://www.youtube.com/watch?v=w12Kn5dEEec https://www.youtube.com/watch?v=glr036csrso https://www.youtube.com/watch?v=Qto25S33mSU	Activity- Germinating seeds and keeping them in different temperatures. Finding out the abiotic factors necessary for germination. Determining the response of plant growth towards the stimulus of light when kept in a dark room.
	Living Organisms and their Surroundings	REVISION PMT Grass land Some aquatic habitat Living things around us, Introduction Do all living things need food, Show growth	https://www.youtube.com/watch?v=w12Kn5dEEec https://www.youtube.com/watch?v=glr036csrso https://www.youtube.com/watch?v=Qto25S33mSU	Revision Notes Worksheet
	Living Organisms and their Surroundings	, Respire, respond to stimuli. Act 4 , Living Organisms and excretion. Do all living things reproduce , Act 5 Do all things move? What then is life?	DS-Forest habitats, Living organisms and their surroundings, Biotic and abiotic factors, Characteristics of living and nonliving organisms.	Notes Worksheet
	Living Organisms and their Surroundings Ch.10 Motion and measurement of distances	Review and test Introduction Story of transport How far have you travelled? How wide is this desk? Some measurements , Act 1	https://www.youtube.com/watch?v=oV7rTA8Yopl	STEM: Multi-motion car

FEBUARY	Motion and measurement of distances	Standard units of measurements. Correct measurements of length. Act 3, Measuring the length of a curved line	https://byjus.com/ncert...class-6.../chapter-10-motion-and-measurement-of-distances/ DS content	Activity: Measuring the length of a curved surface like a bangle using a thread. Finding the perimeter of student's desk using rulers. Conversion of calculated units into subunits.
	Motion and measurement of distances	Moving things around us, Act 5,6 Types of motion, Act 7 Review and test	DS content	