



**NAME OF THE DEPARTMENT - SCIENCE SYLLABUS BREAK UP 2021-22 -AJI**

Name of the Subject Teacher:- Mrs. Y. Sushma Paul/Mrs. Sajeena Furkhan				Grade:- 2											
MONTH	WEEK	Unit/Section	No of Periods	Topic Break Down / for Periods/Learning objectives / progression	Learning Outcomes/ Skills acquired	Activities (Formative assessment tasks, projects, Visits) INCLUDING VIRTUAL LEARNING	Teaching Aids / Reference/ Resources	Competencies and Values	MY IDENTITY	Cross curricular link	Art Integration	Critical Thinking Questions (Objective)	Critical Thinking Questions (Subjective)		
April	4	Lesson-1 Our Body	5	Identify that our body is made up of bones	Students will be able to identify that human body is made of 206 bones	Identify the bones in the skeleton MS Teams: MS Forms - Quiz/Assignment	PPT, Tasksheet	Independent learning, Critical thinking	Who initiated Dubai Fitness challenge?	English: Vocabulary Art: Drawing and labelling Math: Numbers	Craft: Using straws/macaroni make skeletal system Clay- Modelling of internal organs Poster on correct posture and its benefits				
				Explain that our body is made up of bones and muscles	Students will be able to identify that human body is made of 640 muscles	Suggest exercises which keep our bones and muscles strong	Internet	Independent learning Team work							
				Discover the joints in our body	Students will be able to discover the joints in our body	Action Song MS Teams: MS Forms - Quiz/Assignment	<a href="https://www.youtube.com/watch?v=h4eueDYPTlq&amp;v=gn">https://www.youtube.com/watch?v=h4eueDYPTlq&amp;v=gn</a>	Independent learning, Critical thinking Team work							
				Describe the functions of internal organs	Students will be able to explain the functions of internal organs	Clay Model of internal organs	Clay	Critical thinking Team work							
				Discuss the importance of correct posture.	Students will be able to explain the importance of correct posture.	Demonstrate the correct posture	Flash cards	Independent learning Team work							
May	5	Lesson-2 Food	5	Describe the importance of food.	Students will be able to describe the importance of food.	Draw and label your favourite food	A4 Size paper colour	Independent learning, Critical thinking	National fruit of UAE Traditional food of UAE	English: Vocabulary Art: Drawing and labelling	Clay Modelling of different types of food Create a healthy plate Poster on good eating habits				
				Classify different types of food.	Students will be able to identify and classify different kinds of food.	Observe and record the different types of food you had yesterday MS Teams: MS Forms - Quiz/Assignment	PPT, Tasksheet	Independent learning, Critical thinking Care							
				Define balanced diet. Recognize the importance of balanced diet.	Students will be able to define balanced diet. Students will be able to recognize the importance of balanced diet.	Create a healthy plate-clay modelling	Internet	Critical thinking Care							
				Discuss the good eating habits	Students will be able to discuss the good eating habits	Make a poster on good eating habits	PPT, Tasksheet	Critical Thinking Respect							
		6	Lesson-3 Safety Rules	6	Identify the importance of safety rules	Students will be able to identify the importance of safety rules	State the importance of safety rules MS Teams: MS Forms - Quiz/Assignment	PPT, Tasksheet	Problem Solving, Critical Thinking, Independent Learning Care and Respect	Road safety rules in UAE	English: Vocabulary Art: Drawing and labelling Social: Road safety rules of different countries	Poster making on safety rules Collage of safety rules to be followed at school Drawing and labelling of road safety rules			
					Describe the safety rules to be followed at home	Students will be able to describe the safety rules to be followed at home	Draw and label the safety rules to be followed at home	PPT, A4 Size paper	Critical Thinking Care and Respect						
					Discuss the safety rules to be followed in the school	Students will be able to discuss the safety rules to be followed in the school	Poster on safety rules at school	Internet	Problem Solving, Critical Thinking Care and Respect						
					Explain the safety rules to be followed on the road and inside a vehicle.	Students will be able to explain the safety rules to be followed on the road and inside a vehicle.	Compare road safety rules of different countries with UAE	PPT, Tasksheet	Critical Thinking, Independent Learning Care and Respect						
					Describe the safety rules to be followed at while playing.	Students will be able to describe the safety rules to be followed while playing.	Demonstrate the safety rules to be followed while playing	PPT, Tasksheet	Problem Solving, Critical Thinking Value: Care and Respect						
June	5	Lesson - 4 Wild Animals	5	Define wild animals and classify them according to their eating habits	Students will be able to classify the animals according to their eating habits.	Classify animals in Venn Diagram based on their eating habits	PPT	Problem Solving, Critical Thinking, Independent Learning, Global and	Endangered animals of UAE	English: Vocabulary Art: Drawing and labelling Social: Animals living in different part of world	Drawing and labelling the animals according to their eating habits Pictures of animal homes in the scrap book	<ol style="list-style-type: none"> <li>Which of the following statement is correct? A. Herbivores are animals that eat other animals. B. Omnivores are animals that eat both animals and plants. C. Carnivores are animals that eat only dead animals. D. All the above</li> <li>Study the given classification chart carefully. What could X be? (Picture will be attached) a. Tiger b. Cow c. Bear d. Frog</li> <li>The word endangered means? a) present in huge amount b) does not exist c) present in less amount d) numbers lowering day by day</li> </ol>	<ol style="list-style-type: none"> <li>Where do dead animals go from the forests?</li> <li>Nisha and Rohan were playing in a field. Rohan placed stones over all the burrows and holes in the soil just for fun. Nisha noticed it and removed all the stones. Can you tell why Nisha removed all the stones?</li> <li>Why do animals become endangered?</li> <li>What would happen if one of these animals moved from its natural habitat to a different one?</li> <li>Explain how you know an animal by its name. Ex. How do you know an elephant is an elephant?</li> <li>How would you demonstrate an animal behavior with your body based on the movements of your peers in charades?</li> <li>How would you compare your group's animal design with another group's?</li> </ol>		
				Discuss the homes of wild animals.	Students will be able to discuss the homes of wild animals	Identify the homes of wild animals	Internet	Critical Thinking, Independent Learning							
				Explain why wild animals live in groups	Students will be able to explain why some animals live in groups.	Animals living in groups	Flash cards	Critical Thinking Care							
				Define endangered animals.	Students will be able to define endangered animals.	Collect pictures of endangered animals and create a scrap book		Problem Solving, Critical Thinking, Independent Learning, Global and Care and Respect							
				Discuss the ways to protect wild animals.	Students will be able to discuss the ways to protect wild animals.	Poster on protecting wild animals		Problem Solving, Care							
July August	5	Lesson - 5 Domestic Animals	5	To differentiate between pet and farm animals	Students will be able to differentiate between pet and farm animals	Origami Animals- Domestic animals with paper foldings		Critical Thinking, Environmental Awareness Care	National Animal of UAE and what is its young one called?	English: Vocabulary Art: Drawing and labelling	Origami Craft: Things we get from plants Story Telling/Writing a poem	<ol style="list-style-type: none"> <li>Rohini wanted to buy a gift made of animal fibre, which is obtained without killing an animal. Which of the following would be the right gift? a. Animal fur coat b. Woollen sweater c. Silk Scarf d. Leather Shoes</li> <li>A dog that has run away from home is _____. Choose the BEST answer. a. domestic b. wild c. tame d. unruly</li> <li>Select the option which on unscrambling gives the name of the home of chicken. a. GACE b. POCO c. TENS d. TUCHH</li> <li>Generally speaking, a domestic animal is one that: a. Is tame b. Is afraid of people c. Can live independently of people d. Is found free in nature</li> <li>Which of the following animal's sleeps standing up? a. Gorillas b. Flamingos c. Hedgehog d. Ravens</li> </ol>	<ol style="list-style-type: none"> <li>Ankit was hitting his pet dog badly. His mother saw this and stopped Ankit from doing this. Can you tell Why?</li> <li>How animals construct their homes?</li> <li>Would an elephant make a good pet? Why or why not?</li> <li>What animals are domestic or not wild? What makes them domestic?</li> <li>What are some reasons people might take their pets to the vet?</li> <li>How do you think caring for sick or hurt wild animals is different from caring for sick or hurt pets?</li> <li>Do you think ducks are wild or not wild? Why?</li> <li>What are some ways you saw people treating domestic animals respectfully?</li> </ol>		
				To recognize the young one of animals.	Students will be able to recognize the young one of animals.	Pillow Art-Paint your favourite pet animal	PPT	Critical Thinking, Independent Learning Care							
				To explore the homes that we build for domestic animals.	Students will be able to explore the homes that we build for domestic animals.	Collect pictures of homes that we build for domestic animals and create a scrap book	Internet	Critical Thinking, Independent Learning Care							
				To list out the things that we get from farm animals.	Students will be able to list out the things that we get from farm animals.	Draw and label the things we get from farm animals		Critical Thinking, Independent Learning, Environmental Awareness Care							
				To discuss the ways in which we can care animals.	Students will be able to discuss the ways in which we can care animals.			Independent Learning, Care							
SUMMER VACATION															

September	5	Lesson - 6 Plant Life	4	Identify different types of plants Compare the features of climbers and creepers. Discuss that the plants make their own food. Recognise that the plants can be found both in land and water.	Students will be able to identify different types of plants Students will be able to compare the features of climbers and creepers. Students will be able to discuss that the plants make their own food. Students will be able to recognise that the plants can be found both in land and water.	Draw and label different types of plants Take any three herbs used in cooking. Check on the internet how are they useful to us. Make a scraw crow used by farmers to guard the crops.	 <a href="https://www.youtube.co">https://www.youtube.co</a> PPT Internet	Critical Thinking, Independent Learning, Environmental Awareness Critical Thinking, Care and respect Critical Thinking, Independent Learning, Environmental Awareness Care and respect Independent Learning, Environmental Awareness Care and respect	National Tree of UAE	English: Vocabulary Art: Drawing and labelling Social: Plants in different parts of the world Painting different types of plants Computer skills: Research work Craft: Create an animal shape with dry leaves Photography: Take a picture to show how you take care of plants	1. What is the characteristics of the plant whose product is shown below? (Picture will be attached) a. The plant has hard and strong stems. b. The plants is small with soft stem. c. The plant has weak stem and grows along the ground. d. The plant has weak stems and needs support to stand and grow. 2. Why do plants make seeds? a. so that animals and birds can eat them b. so that they can grow into new plants c. to store food made by the plant d. to give shape to the fruit 3. You and your family were trying to figure out a way to help the environment. Which of the following is not helpful to the environment? a. Feeding wild animals your leftover pencil sharpening. b. Recycling trash c. Planting more trees	1. Where can you move your plant to give it access to clean air? 2. What can you do to give your plant more space? 3. Tina dropped some seeds in the garden. A few days later, a small plant grew in the spot. How? 4. Grandma was planting a money plant in the pot. She put a moss stick into the soil in the pot. Why? 5. Why do you think some plants grow back after we pull them out of the ground? 6. How would the growth of a plant be affected if its roots were cut off? Suggest at least two ways. 7. Why does "watering a plant" mean to water the soil around the plant? 8. What do you think would happen if...nobody watered the plants / somebody stepped on the plants / etc.? 8. How is the plant climbing up? Is there something that is helping it to climb up?
		Lesson - 7 Uses of Plants	1	Discover the things we get from plants.	Students will be able to discover the things we get from plants	Assignment on the things we get from plants. Write a recipe for making Lemonade	<a href="https://www.youtube.co">https://www.youtube.co</a>	Independent Learning, Environmental Awareness Care and respect	Medicinal Uses of national tree of UAE	Math: Numbers Cooking: Recipe for (Lemonade)	1. Plants give us oil. Which are the examples of such plants? a. Groundnut b. Sunflower c. Mustard d. All a, b and c are correct 2. Study the given flowchart and select the option to correctly fill the empty space? x? and? y? (Flow chart will be attached) a. Mint and clove b. Clove and Neem c. Tulsi and Cocoa d. Cardamom and Almond 3. Radha has a pomegranate tree in her garden. One day, her younger brother picked all the flowers from the tree. She started	1. How do plants make air fresh and clean? 2. How are we saving trees by not wasting paper? 3. What if there are no plants on this Earth? Explain it. 4. Research and name the plant used as hedges. Its leaves when crushed give beautiful colour to hands and hair. 5. How do environmental conditions affect plant growth? 6. How are plants connected with other living things?
October	4	Lesson-9 Air	10	Identify different properties of air.	Able to identify different properties of air.	Science Table Activity: Use their breath or a straw to blow and try moving the objects around the table without touching them.	one paper lunch bag for each student, tub of water Clear plastic cup ,Newspapers ,Towel	Critical Thinking, Integrity	What are the ways that air get polluted in UAE?	English -Vocabulary Poster Making: Slogan to reduce air pollution. Drawing -Ways to keep the environment clean		
				Explain and demonstrate the different properties of air.	Able to explain and demonstrate the different properties of air.	MS Teams: MS Forms - Quiz/Assignment Experiment demonstrating the properties of air.	<a href="https://www.youtube.com/watch?v=I3JtnoCnQ7w">https://www.youtube.com/watch?v=I3JtnoCnQ7w</a>	Critical Thinking Integrity				
				Discover the things that air contains.	Able to discover the things that air contains.	Experiment to discover the things that present in the air.	<a href="https://www.youtube.com/watch?v=h7rhQM2dXIE">https://www.youtube.com/watch?v=h7rhQM2dXIE</a>	Critical Thinking Integrity				
				Discuss the importance of fresh air to stay healthy.	Able to discuss the importance of fresh air to stay healthy.	What if we breathe polluted air?	Task Sheets, PPT , Video	Innovation , Tolerance				
				List out the ways to reduce air pollution.	Able to list out the ways to reduce air pollution.	Poster Making - Awareness on Air Pollution	Colours Task Sheets, PPT , Video	Independent learning				
November	4	Lesson-10 Wind	10	Discover the uses of wind.	Able to discover the uses of wind.	Light Wind Build a simple wind generator	<a href="https://www.exploratorium.edu/snacks/light-wind">https://www.exploratorium.edu/snacks/light-wind</a>	Innovation and Critical Thinking Honesty	Imagine if there is a sand storm in UAE how the environment looks like.	English-Vocabulary	Activity 1:Breezy weather? Help your young scientist relate it to weather across her community and state, and make a wind vane.Take your wind vane outside to a place	
				Identify and differentiate wind, breeze and storm.	Able to identify and differentiate wind, breeze and storm.	Pin Wheel Craft Experiment explaining Wind.	blocks, leaves, different sized rocks, paper, balloons.	Innovation Tolerance				
		Discover that air can be useful and harmful.	Able to discover that air can be useful and harmful.	MS Teams: MS Forms - Quiz/Assignment Advantage and	Task Sheets, PPT , Video	Communication Honesty						
		Lesson-11 Water	3	Identify the sources of water.	Able to identify the sources of water.	Collect pictures the various sources of water and stick in your note book. Quick facts about the earth's water	Task Sheets, PPT	Communication Honesty				
Discuss the importance of clean water.	Able to discuss the importance of clean water.	Water pollution facts		Task Sheets, PPT	Global and Environmental awareness							
December		Lesson-11 Water	5	Describe the ways in which we can save water.	Able to describe the ways in which we can save water.	MS Teams: MS Forms - Quiz/Assignment List ways that you can	Color Papers , colours	Independent learning	How the water purified in UAE?	Social- Three parts of our Earth is covered with water.	Poster Making : Theme 'Save water' and write catchy slogans Drawing sources of water.	
				Explain how we get water supply.	Able to explain how we get water supply.	Different sources of water.	Task Sheets, PPT , Videos	Critical thinking				
				Describe the ways in which we can save water.	Able to describe the ways in which we can save water.	Group Activity: Poster Making : Theme 'Save water' and write catchy slogans	Task Sheets, PPT , Videos	Global and Environmental awareness				
WINTER VACATION												
January	Lesson-12 Forms of Water	6	Identify different forms of water.	Able to identify different forms of water.	MS Teams: MS Forms - Quiz/Assignment Identify the different forms of water doing experiment.	Water, Ice, Hot water <a href="https://www.youtube.com/watch?v=UddoecmCm7M">https://www.youtube.com/watch?v=UddoecmCm7M</a>	Critical Thinking and Problem Solving	In AI Ain we don't have sea then how we are getting water to our daily use? Is there any Wadi in AI Ain?		Social- Landforms	Build a model to simulate parts of the water cycle with the help of clay . They will be able to recognize and explain the essential elements of the water cycle.	
			Define evaporation and condensation.	Able to define evaporation and condensation.	Water cycle in a Zip bag science experiment.	Zip lock bag, Marker, Water, Colours	Critical Thinking and Problem Solving					
			Explore water cycle as a continuous process	Able to explore water cycle as a continuous process	Water cycle with play dough and label the continuous process.	PlayDough, Paper Plate	Innovation and Critical Thinking Honesty					
	Lesson-13 Day, and Night, Light and Shadow	6	Discover how day and night are caused.	Able to discover how day and night are caused.	Label and colour the picture to show where it is day and where it is night.	<a href="https://www.youtube.com/watch?v=1K63Rq1FoMo">https://www.youtube.com/watch?v=1K63Rq1FoMo</a>	Innovation and Critical Thinking Honesty	What are the things carry for the desert Campaign in UAE?		English -Opposites	Activity1: Draw and show the formation of shadows in different positions and sizes. Activity2: Draw pictures of man- made sources of light in the notebook.	
Compare day and night.	Able to compare day and night.		MS Teams: MS Forms - Quiz/Assignment Compare and contrast day and night using venn diagram.	Venn Diagram - Template	Innovation and Critical Thinking Honesty							
				Identify different sources of light.	Able to identify different sources of light.	Collect pictures of man-made sources of light and stick in the notebook	Pictures of man-made sources of light	Problem Solving				

				Define shadow and identify how shadows are formed.	Able to define shadow and identify how shadows are formed.	Shadow measuring activity of their buddy.	Measuring tape, Chalk	Innovation and Critical Thinking Honesty				
	4		10	Relate light and shadow	Able to relate light and shadow	Draw and colour the part of the earth that will have day and night.	<a href="https://www.youtube.com/watch?v=3ydgMlyAWz4">https://www.youtube.com/watch?v=3ydgMlyAWz4</a> Chart Paper, Colours	Independent Learning	Shadow image of Burj Khalifa	English Rhymes	Activity3: Draw and colour the part of the earth that will have day and night. Activity:4 Trace	
February		Lesson-14 Rocks and Minerals		Identify and classify different types of rocks.	Able to identify and classify different types of rocks.	MS Teams, MCQs, Quiz/Assignment Collect different types of rock and label them.	Sample rocks	Innovation and Critical Thinking Honesty	Do you ever visited any buildings made of rock in UAE?	Social- Different landforms	Rock Paintig: Making of paper weight by painting a rock.	
			Discover the different uses of rocks.	Able to discover the different uses of rocks.	Draw a flow chart and explain the uses of rocks and minerals in their note book.	Task Sheets, PPT , Video	Innovation and Critical Thinking Honesty			Paint the rocks as puzzle pieces, so kids can use them to create beautiful pictures of animals.		
			Identify different types of minerals	Able to identify different types of minerals	Group Activity: Collect pictures of any three objects made of rock or a mineral. They should	Pictures of Different types of rocks	Innovation and Critical Thinking Honesty	In UAE which emirate do you find Mountains?	Social- Different landforms			
	8		Discover the different uses of minerals	Able to discover the different uses of minerals	Write the different uses of minerals.	Task Sheets, PPT , Video	Independent Learning					
	4			Revision	Recap of lessons for Annual Examination.	Recaptulation	includes MCQ's, HOTS, Real life Application	Independent Learning	Worksheets which includes MCQ's, HOTS, Real life Application	includes MCQ's, HOTS, Real life Application	Recaptulation	
March	1st week		5	Revision	Recap of lessons for Annual Examination.	Recaptulation	includes MCQ's, HOTS, Real life Application	Independent Learning	Worksheets which includes MCQ's, HOTS, Real life Application	includes MCQ's, HOTS, Real life Application	Recaptulation	
	2nd week	ANNUAL EXAMINATION 2020-21										
	3rd week											
	4th week											