



AL AIN JUNIORS SCHOOL
INDIAN SYSTEM



United Nations
Educational, Scientific and
Cultural Organization



Member of
UNESCO
Associated
Schools



AJ Chronicles

News Letter

February 2021

AJI Primary

Issue: 9



“The science of today is the technology of tomorrow.”
Edward Teller



Virtual Month of Science





Learning is not just about going to school. It comes from well-rounded experiences and widening of knowledge about the truth of life. Science education has a critical role to play in the midst of this pandemic. The Month of Science at AJI Primary was celebrated virtually. Instead of having the usual activities from the previous years which required the physical and active participation of the students, this year we encouraged them to participate virtually. It encouraged the children to think about how the sciences, technology, and engineering are related to our everyday lives – whilst having fun. Now that the education system has shifted dramatically to remote learning, the mission still remains – it is to overcome the learning crisis, respond to the pandemic we are all facing, and no student shall be left behind. The activities of the Month were organized to demonstrate the importance and relevance of science to the future development of our society and economy. Students of Gr 1 to 6 had a wonderful time exploring their scientific aptitudes by participating in different hands-on activities. Taking part with vigor and enthusiasm, they acquired understanding of scientific concepts, principles and laws, through fun-filled activities and interesting online quizzes facilitated by the Science Faculty. The month of Science was divided into four theme based weeks i.e. [YOUNG SCIENTISTS COMPETITIONS](#) to develop students’ scientific literacy through fostering curiosity, [SUSTAINABILITY COMPETITION](#) to make students conscientious and concerned citizens for a sustainable future [EAT RIGHT GET ACTIVE COMPETITION](#) to create awareness about Healthy eating & [INNOVATORS CHALLENGE COMPETITION](#) to bring out the hidden talents of students and with a focus on creating more awareness of science, technology and



On 1st Feb 2021, students of Grade 2 learned about the sources of light. They had a fun learning activity by gaining knowledge through did you know facts.

Did you know?

Without the invention of the light bulb by Thomas Alva Edison we would not have the following inventions:





	
Camera	Lamp
	
Car light	Street light

Done by Tomine.

1-2-21





Did you know?

Without the invention of the light bulb by Thomas Alva Edison we would not have the following inventions:

	
Lamp	Flashlight
	
Flashlight	Candle

Did you know?



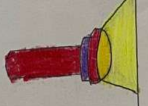

Without the invention of the light bulb by Thomas Alva Edison we would not have the following inventions:

	
Camera	Table Lamp
	
Beacon light	Heat Light

Ayesha Khan
Grade 2-A

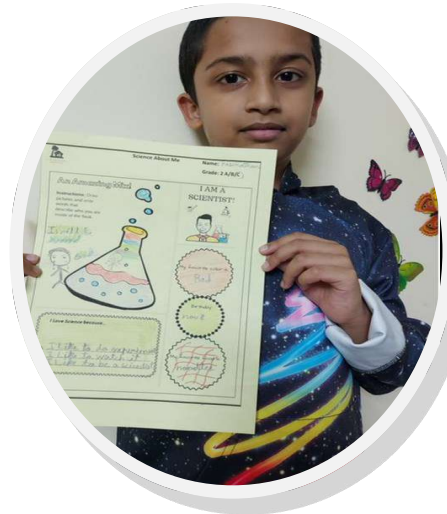
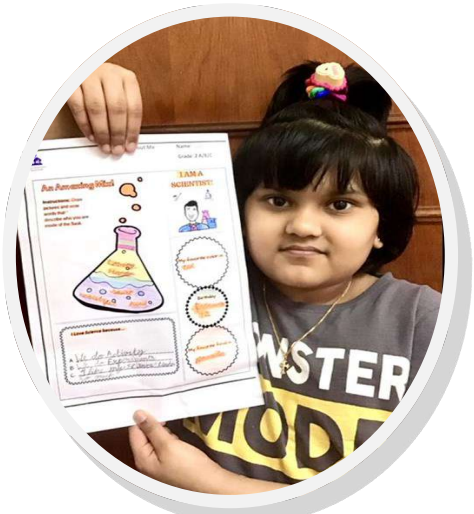
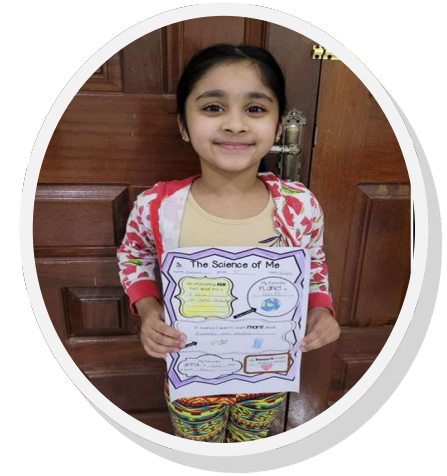
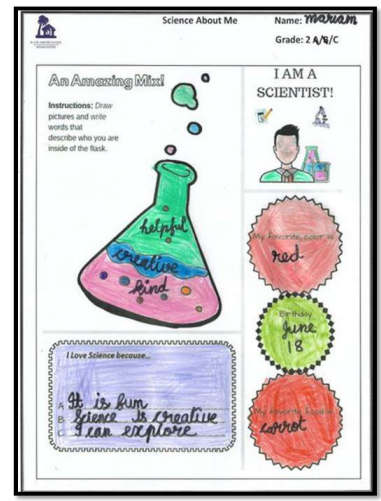
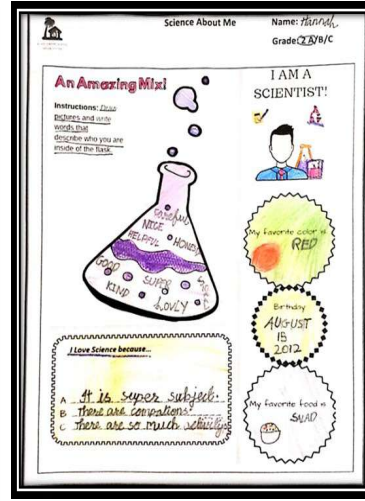
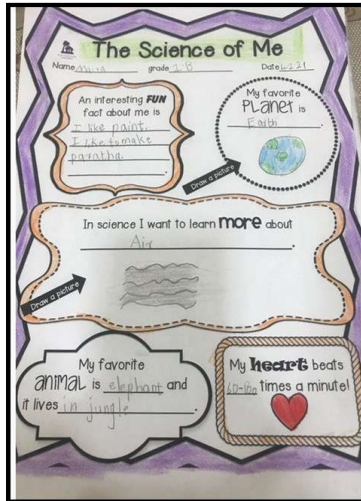
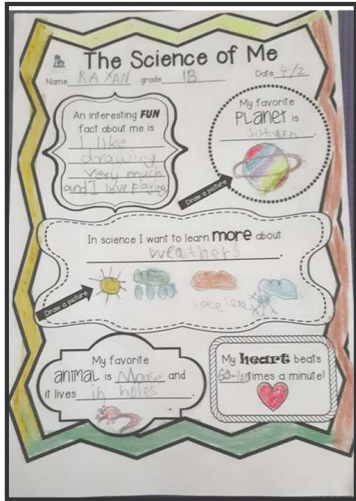
Did you know?

Without the invention of the Light bulb by Thomas Alva Edison we would not have the following inventions:

	
Music stand light	tube light
	
Touch lights	Lamp

The Science About Me

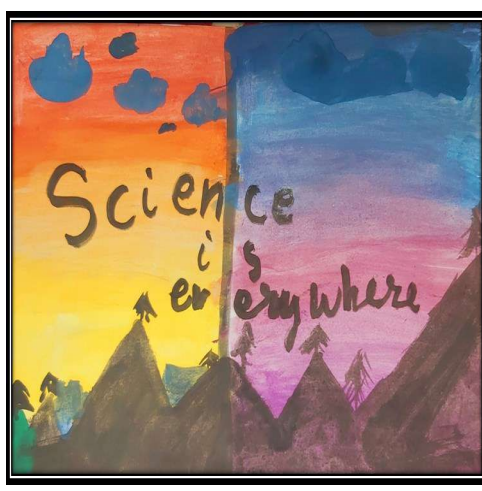
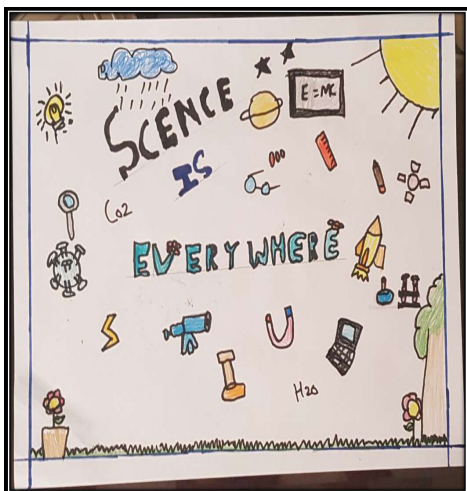
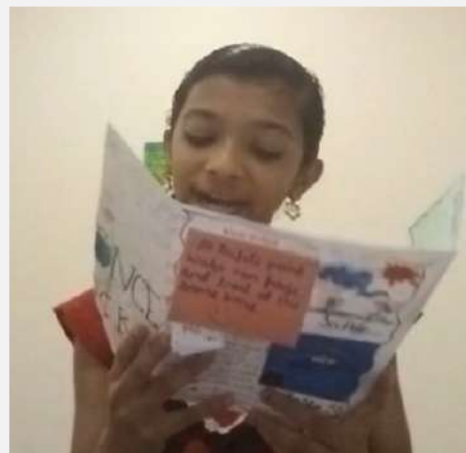
Students of Gr 1 and 2 personalized science details about themselves while completing the fun and engaging activity 'The Science about me', on 4th Feb'2021.



Science is Everywhere

"Science is Everywhere, but No One Knows It" As we look back in our ancient times we see so much development in the world. The world is full of gadgets and machinery.

The students of grade 3 & 4 collected the information on the topic "Science is Every where". They made a poster on the topic & explained that each area of the environment is based on science and scientific approach. They concluded that Science is the backbone of our society. Science give us so much in our present time.

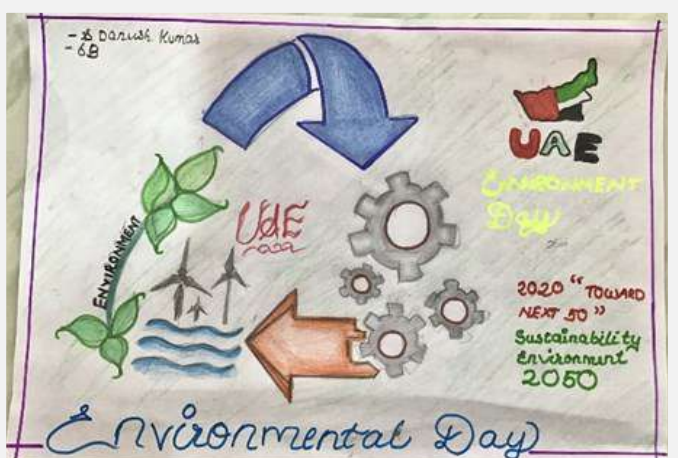
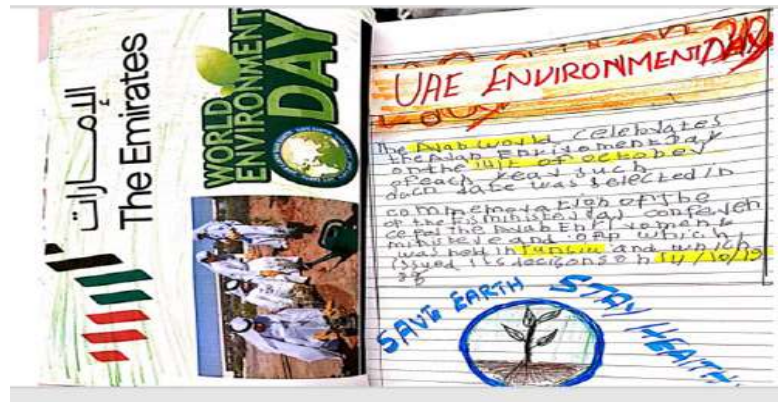


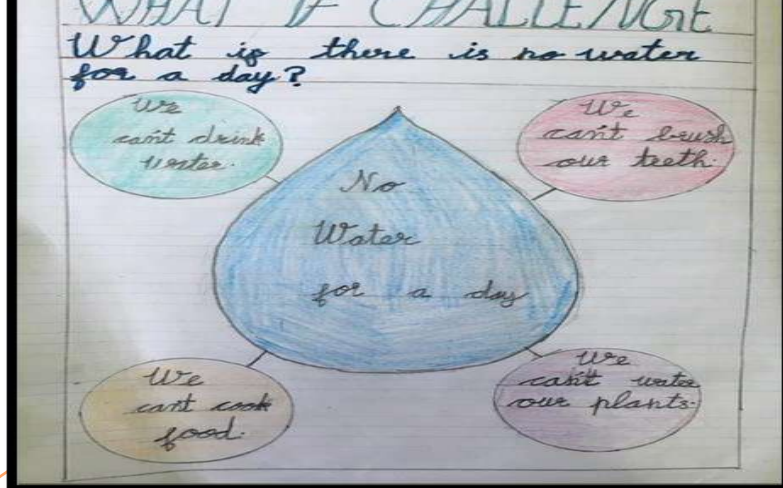
UAE National Environmental Day Activity

February 4th is the annual celebration of UAE Environment Day, as a way of increasing awareness of concerns related to environmental protection.

Despite the current health crisis and the necessity of social distancing, UAE environment day is organized, helped to encouraged the students to participate in online events that will raise awareness of ways to protect the environment.

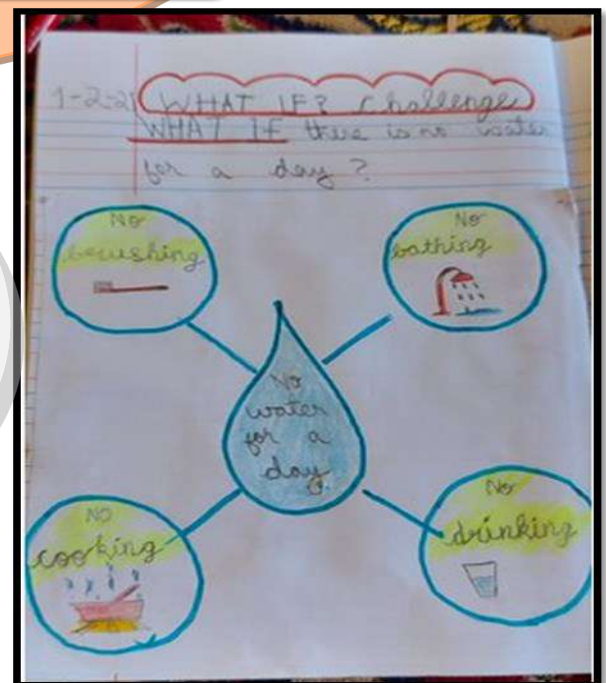
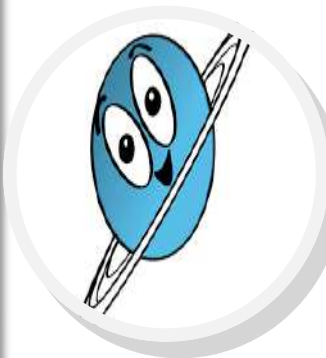
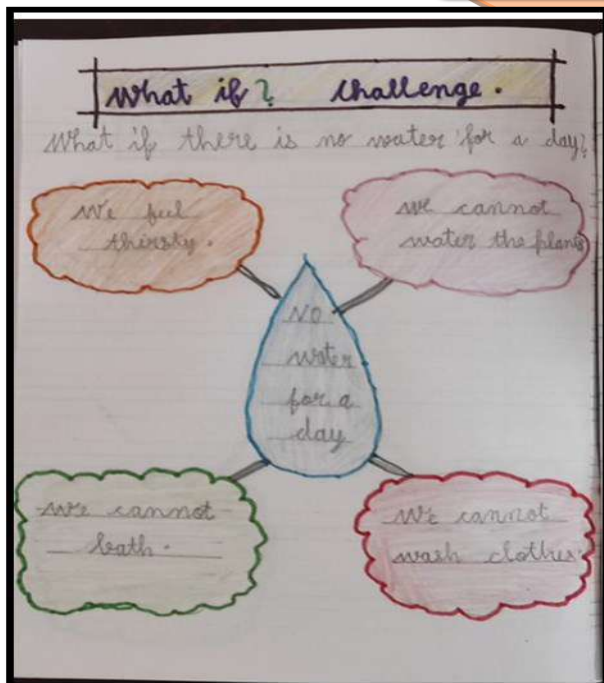
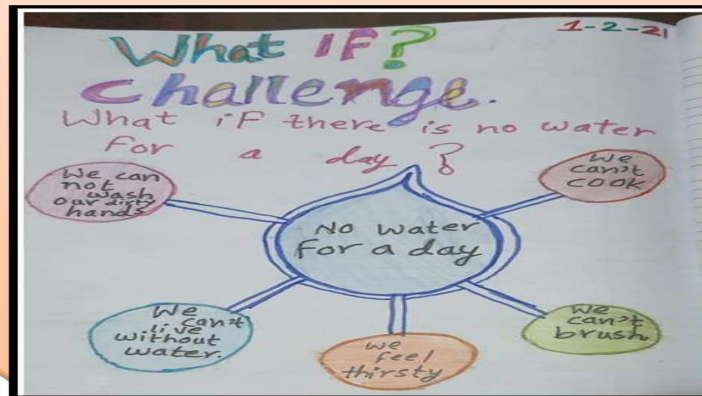
Students of Gr 4, 5 and 6 did a presentation on UAE National Environment Day to explain its significance.





What if challenge?

The WHAT IF challenge aims to stimulate the minds of everyone to imagine and share ideas that could solve real problems and add value to the world. Students of Grade 1 did an activity on What if? Challenge about the lesson Water. What if there is no water for a day?

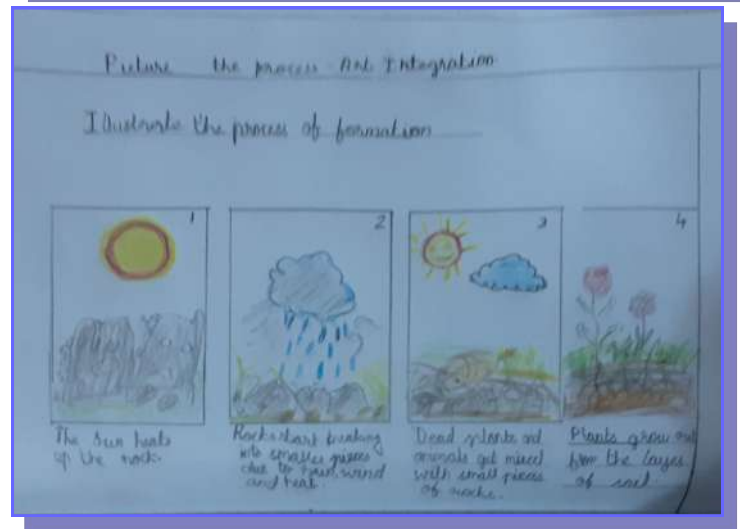
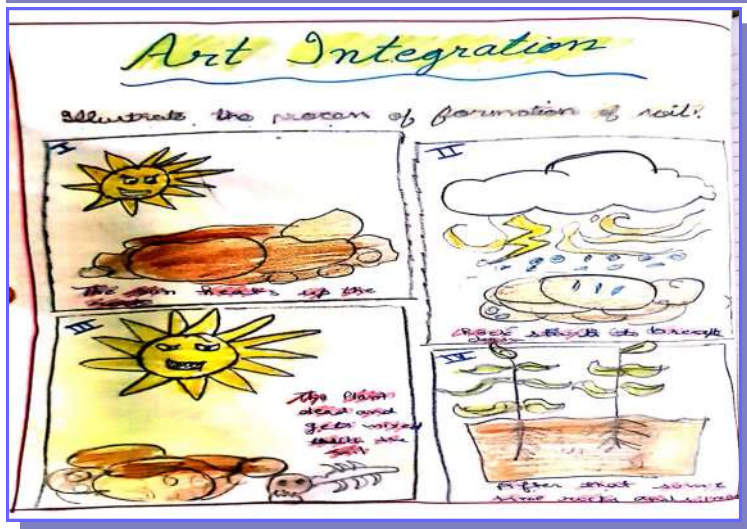
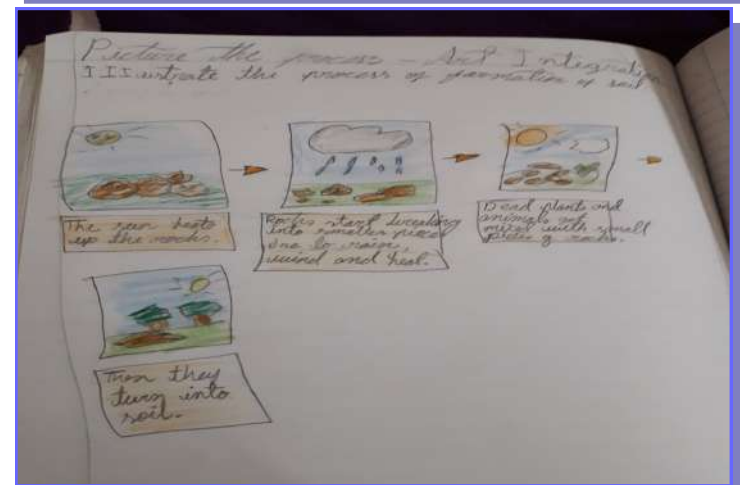
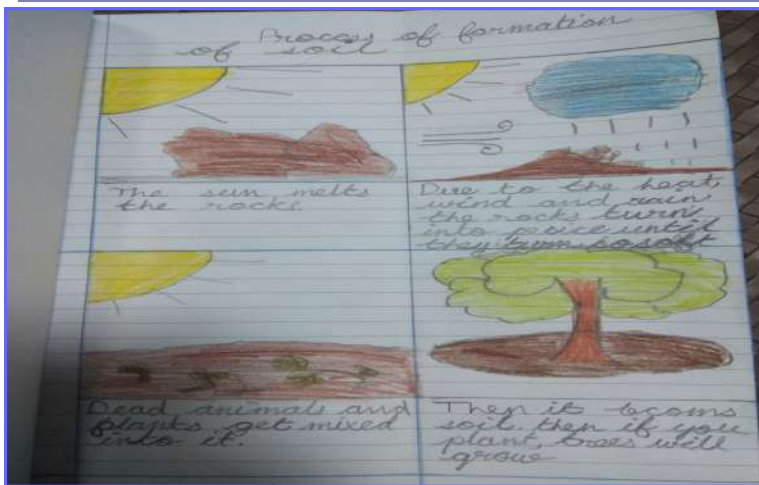
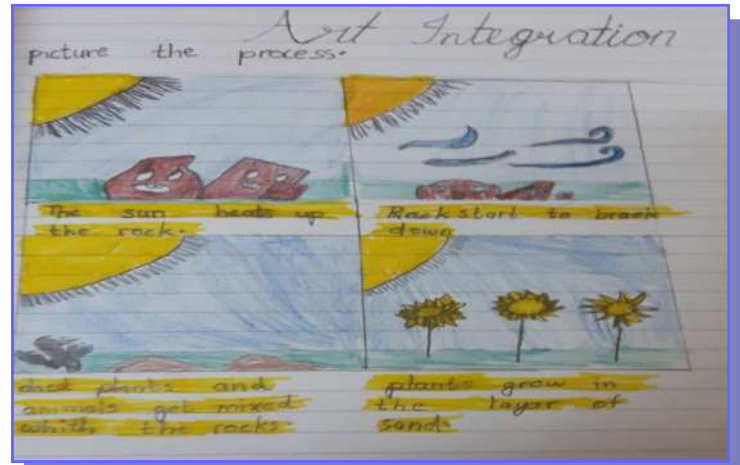
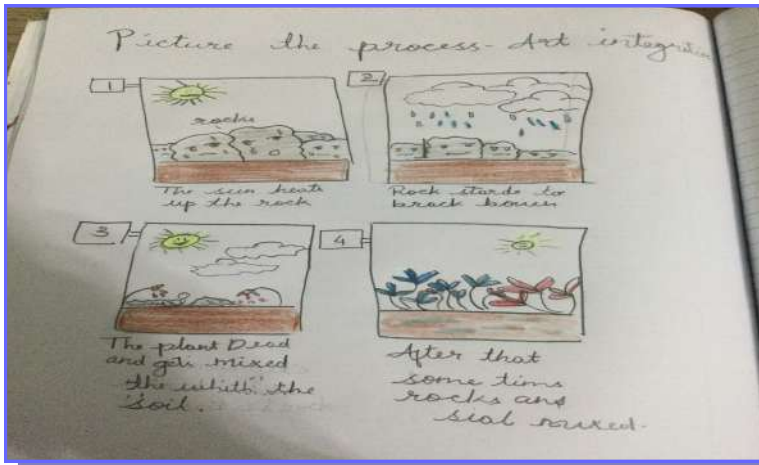


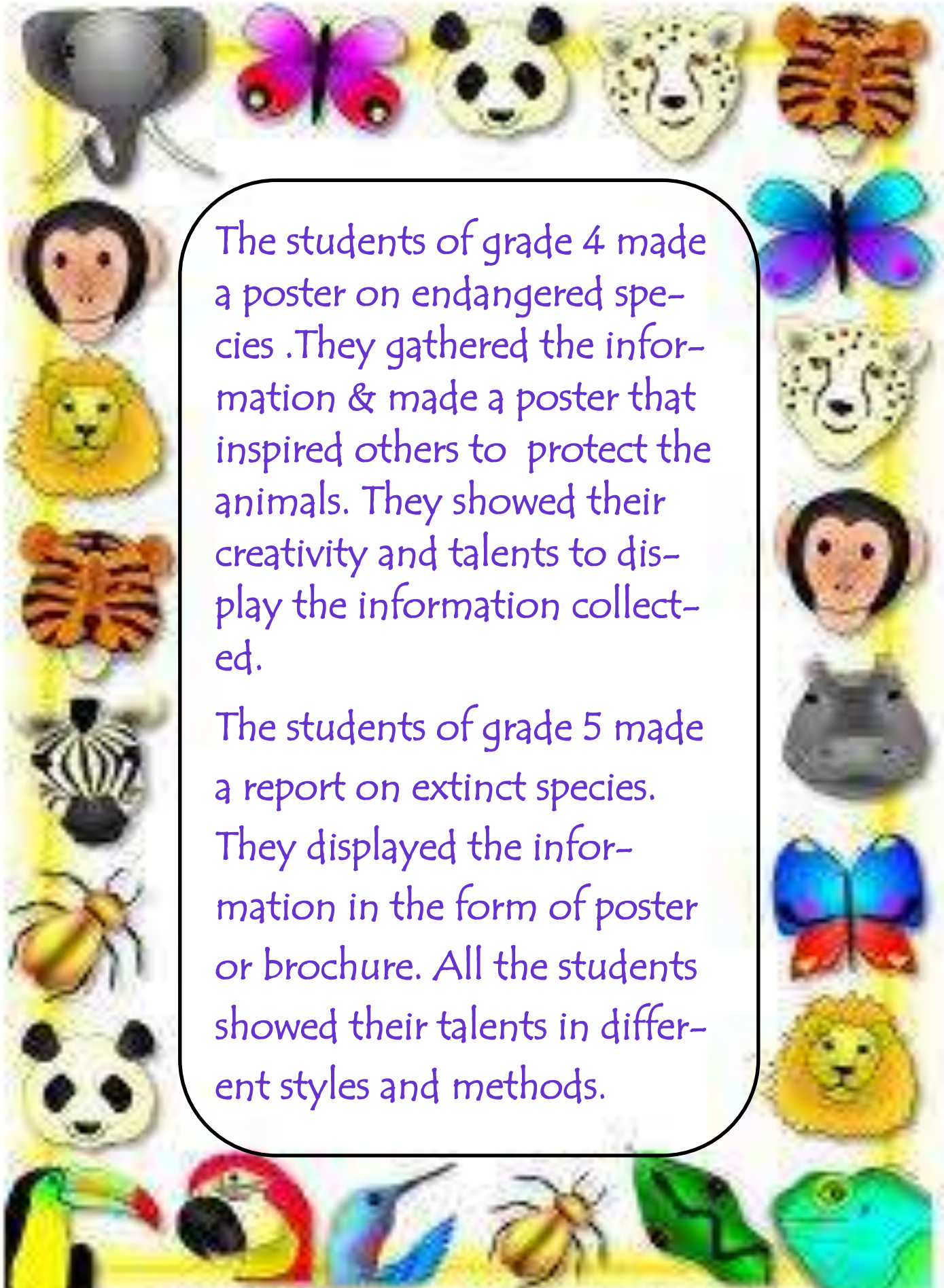
Grade 2 – Animal Habitat Activity

Students of Grade 2 were encouraged to explore the features of a habitat and consider which animals and plants are suited to the environment and why. They designed a land or water habitat on a paper plate and included specific plants and animals that live there. They also made a drawing for the background and showed the diversity of the habitat by including more or fewer plants and animals in their scene.



Students of Grade 3 got an opportunity to discover how was the soil formed millions of years ago. They enjoyed the activity picturing the process of soil formation.

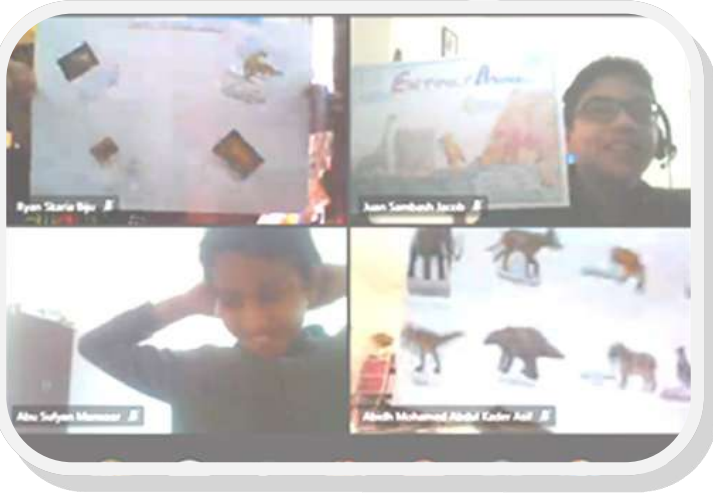




The students of grade 4 made a poster on endangered species. They gathered the information & made a poster that inspired others to protect the animals. They showed their creativity and talents to display the information collected.

The students of grade 5 made a report on extinct species. They displayed the information in the form of poster or brochure. All the students showed their talents in different styles and methods.

Endangered and Extinct Animals



Extinct Animals

Abidh Asis

Woolly Mammoth
 Usually mammoth is a species of mammoth that lived during the ice age and its extinction in the 10,000 years ago.

Tasmanian tiger
 It was one of the largest feline carnivorous marsupials existing about 2 million years ago. The last known live animal was captured in 1936 in Tasmania.

Golden Toad
 The golden toad is an extinct species of tree toad that once lived in a small bog with its range about 4 square kilometers in the rain forest of the central mountains of Costa Rica.

Dodo
 The dodo is an extinct flightless bird that once roamed the island of Mauritius in the Indian Ocean.

Dinosaur
 It is a group of animals that lived about 65 million years ago but a comet impact was the reason for their extinction.

Ground Sloth
 The sloth is said to be a relative of the extinct sloth because of the long arm of the earliest form of a sloth which was opposite to the other two limbs.

Saber-Toothed Cat
 A saber-toothed cat is any member of an extinct group of predatory mammals that had greatly elongated canine teeth which protruded from the mouth when closed.

Passenger Pigeon
 The passenger pigeon was a bird that once roamed the eastern United States and Canada.

Extinct animals

The greatness of a nation can be judged by the way its animals are treated.

As we all know extinction of animals are dangerous.

Extinction of a particular animal or plants species occurs when there are no more individuals of that species alive anywhere in the world.

Tasmanian Tiger **Great Auk**

Jan 5, 2021

EXTINCT ANIMALS

Dinosaur and **Great Auk** are extinct animals. They are tall and they are very big. They are very dangerous. They are very big.

Dodos are an extinct flightless bird that was once in the island of Mauritius.



ENDANGERED ANIMALS

DON'T HURT RESCUE ANIMALS

DON'T CAGE THE ANIMALS. CAGE THE CRUELTY

ENDANGERED ANIMAL

Animals that are in danger of disappearing from the face of the earth if their situation is not improved.

Speak for the ones without a voice

SHOOT US WITH CAMERAS NOT GUNS

Design Challenge

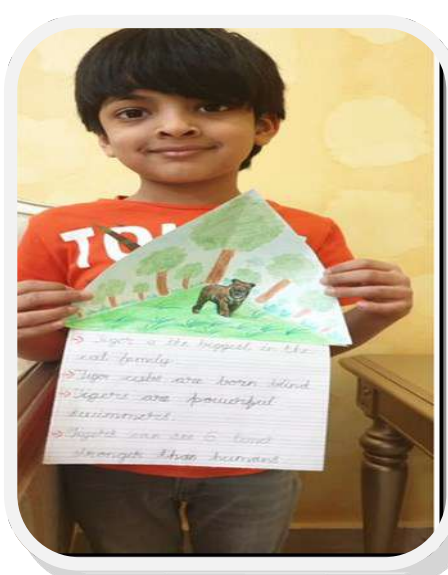
Design challenges are a great way to spark interest in students at home. Students of Grade 4 were encouraged to brainstorm, design, build, test, problem solve, troubleshoot, think and innovate.



Triorama

Triorama is an excellent science and art intergrated activity.

Students of Grade 1 chose their favourite animal and created their own triorama. Students drew a background on the triorama before creating the base. They also added other features to create a detailed scene.



Activity on Sustainability

Students of Grade 6 made a BROCHURE ON SUTAINABIL-ITY and prepared a presentation to discuss the following top-ics.

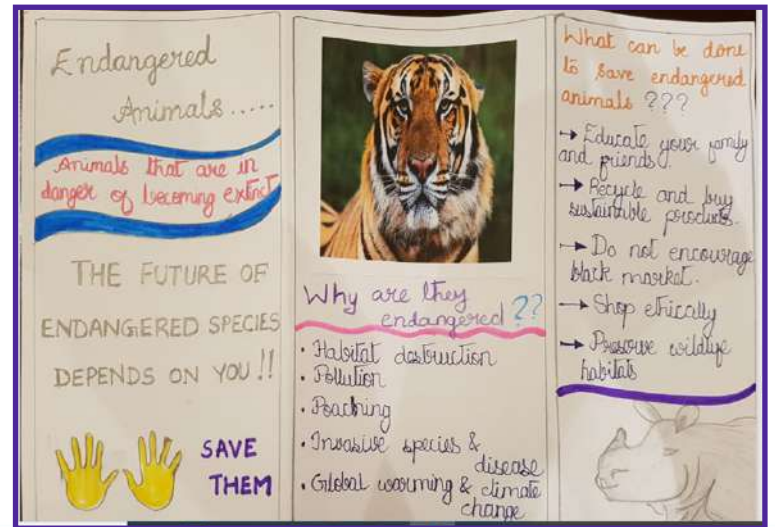
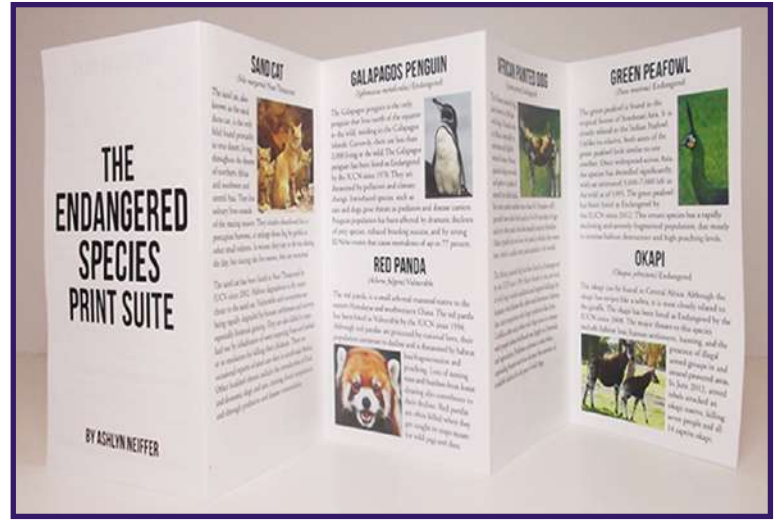
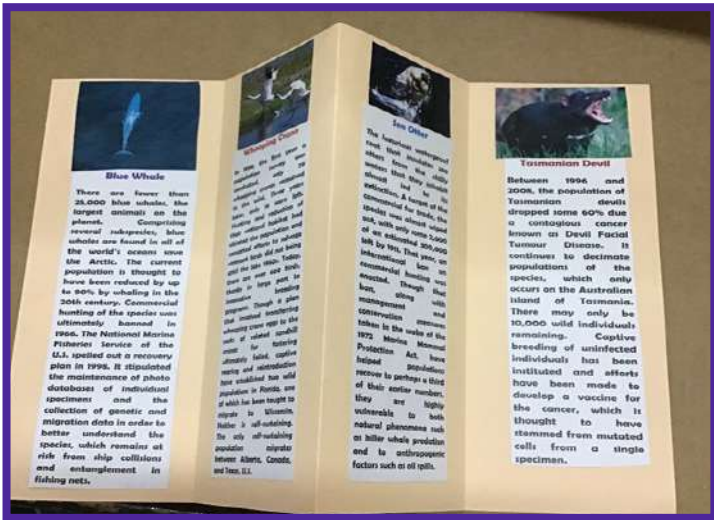
What are the initiatives taken by the UAE government to conserve environment?

What is UAE doing for sustainable development?

What is an example of sustainable development in UAE?

Endangered and extinct species of UAE

Safeguarding Abu Dhabi's natural resources for a sustainable future.



CRACK THE CODE

Coding is a mindset that can ignites a wildfire of innovation and creativity in studies Crack the code puzzle helps to exercise students' brain and boost memory. It can improve child's logical thinking and problem-solving skills. Students of Grade 6 were encouraged to think logically and understand the 'Why' behind 'What' of everything.

Starter:

Crack the Code - Penguin facts

Crack the Code to find the answer to questions about penguins.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
P	Q	R	S	T	U	V	W	X	Y	Z				
16	17	18	19	20	21	22	23	24	25	26				

2) What do penguins eat?
11 18 9 12 12, 19 17 21 9 4 and 6 9 19 8
 K R I L L, S Q U I D and F I S H

2) What is the smallest species of penguin called?
12 9 20 20 12 5 2 12 21 5 16 5 14 7 21 9 14
 L I T T L E B L U E P E N G U I N

3) How fast can some penguins swim?
6 9 6 20 5 5 14 13 16 8
 F I F T E E N M P H

4) How many different species of penguins are there?
14 9 14 5 20 5 5 14
 N I N E T E E N

Adaptations in living organisms

STARTER

Crack the code activity

CRACK THE CODE - PENGUIN FACTS

Name: Arham Sheikh Date: 15-2-2021

Crack the Code to find the answer to the questions about penguins.


A	B	C	D	E	F	G	H	I	J	K	L	M
1	2	3	4	5	6	7	8	9	10	11	12	13
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
14	15	16	17	18	19	20	21	22	23	24	25	26

1) What do penguins eat?
K R I L L S Q U I D F I S H
 11 18 9 12 12, 19 17 21 9 4, and 6 9 19 8

2) What is the smallest species of penguin called?
L I T T L E B L U E P E N G U I N
 12 9 20 20 12 5 2 12 21 5 16 5 14 7 21 9 14

3) How fast can some penguins swim?
F I F T E E N M P H
 6 9 6 20 5 5 14 13 16 8

4) How many different species of penguins are there?
N I N E T E E N
 14 9 14 5 20 5 5 14



Cross Curricular Activities



Various cross curricular activities were conducted in Science classes of 6 to increase motivation, improve the learning process, genuine teamwork, and pathways for further discoveries.

Cross Curricular Activity



HAVE A BALL
 When I was born I was given a ball
 (The ball was green & blue)
 My mom said "Share and take good care"
 It belongs to others too.
 Keep it clean. Keep its green parts green and
 Try to keep the blue parts bluer.
 If you love this ball it will never grow
 old. In fact it will grow newer!
 So I did all this and I did more
 I love this ball so much.
 I hope that you will
 love it too.....
 It is the only ball we've got!

MOTHER EARTH



mother earth, mother earth
 it's a great place to be
 mother earth, mother earth
 home planet for you and me.
 Let's all be one earth with care
 'cos it's a planet we all share
 Humans, animals, plants and trees
 Let's live together in harmony.
 In our future we must take care
 for no future we need to share
 So bind its worth with
 light the world
 with your
SMILE

KIDS for saving THE EARTH



Reduce Reuse Recycle
 These are words we know
 We have to save our planet
 So we can live and grow
 We might be only children
 We have to try, you'll see
 We'll save our planet
 It starts from you and me!

The Earth is my HOME

No job is too big, no action too small
 The care of the Earth is a job for all!

ATUNAG-1

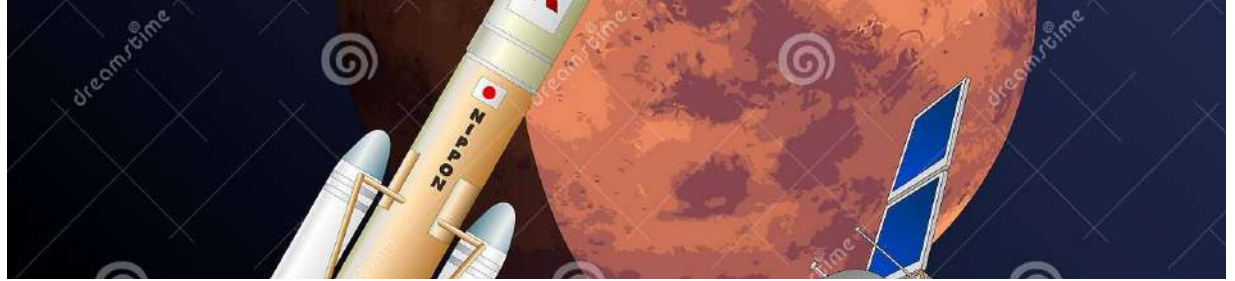
Vivola 6D



EARTH
 Each person conserve energy
 assist in protecting earth
 reducing, reusing and recycling
 together we can save the earth
 helping to heal our earth

My Mother Earth

Name: Vivola
 Date: 11-02-2021



Emirates Mars Mission Activity

Students of Grade-6 did a presentation on the topic The objective was to make the students aware of Emirates Mars Mission.

The Hope - مسابر الأمل

The Hope orbiter was launched on 19 July 2020 at 21:58:14 UTC. The space probe will study daily and seasonal weather cycles, weather events in the lower atmosphere such as dust storms, and how weather varies in different regions of the planet.

Name	Emirates Mars Mission
Probe Name	Hope Probe (Arabic: الأمل: Hope)
Launched	20 th July 2020, 12:58 AM (Dubai)
Launch location	Tanegashima Space Centre, Japan
Cruising distance	493.5 million kms
Mission duration	One Martian Year (about 2 Earth years)

Objectives:

- Understand climate dynamics and the global weather map through characterizing the lower atmosphere of Mars.
- Explain how the weather changes the escape of hydrogen and oxygen through correlating the lower atmosphere conditions with the upper atmosphere.
- Understand the structure and variability of hydrogen and oxygen in the upper atmosphere.

Weight: 1,350 kg (including fuel)

Dimensions: 3m x 7.7m (with solar panels open)

600 watt solar panel to charge batteries

1.85m antenna to communicate

EMIRATES MARS MISSION

The Emirates Mars Mission (EMM) is UAE's first mission to Mars.

The 2020 MESA/Creato documents outline its primary goals:

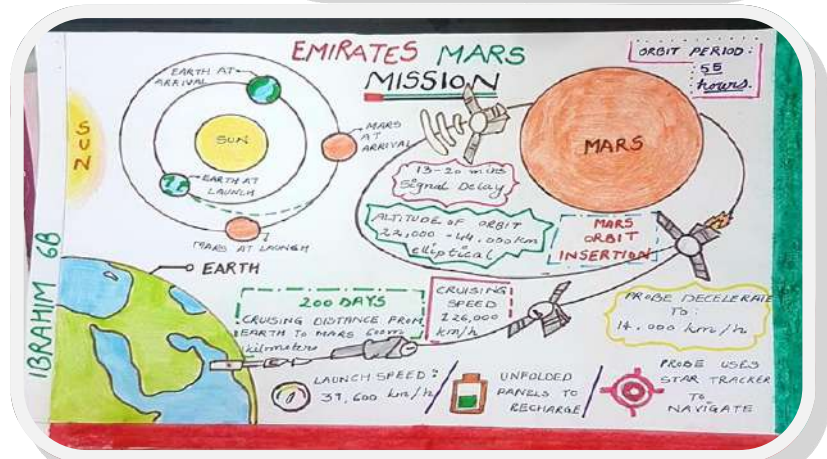
- Determine if Mars ever supported life, or still supports life.
- Understand the processes and history of climate on Mars.
- Understand the origin and evolution of Mars as a geological system.
- Prepare for human space exploration.

Mission Highlights:

- Launched: 20 July 2020, 12:58 AM (Dubai Time)
- Mission duration: One Martian Year (about 2 Earth years)

The EMM is designed to orbit Mars and study the dynamics in the Martian atmosphere on a global scale, and on both diurnal and seasonal timescales.

The Emirates Mars Mission 'Hope Probe' will be the first Probe to provide a complete picture of the Martian atmosphere.



Hope Mars Mission

Launched 19 July 2020, Tanegashima Space Center, Japan

This mission is the UAE's first Space Exploration to be carried out by the Arabs world, from Tanegashima.

The Mission is led by MBRSC. The Spacecraft is built by MBRSC with support from the University of California and the University of Arizona.

The Probe is compact and hexagonal in shape, and structure weighing around 1,350 kg, 2.37m wide and 2.90m tall.

Hope will use solar panels to generate power and charge its batteries and it will communicate using 1.85m dish antenna.

The Spacecraft also has the Tianwen-1 camera which takes images of Mars by studying the circulation wind from the Mars surface.

Speed is controlled by Thrust and A/C thrusters are used for maneuvering.

Probe is controlled by ground stations at the University of California, and a few assembled at University of Colorado.

Upper atmosphere of Mars will be studied by Mars Express and Mars Reconnaissance Orbiter.

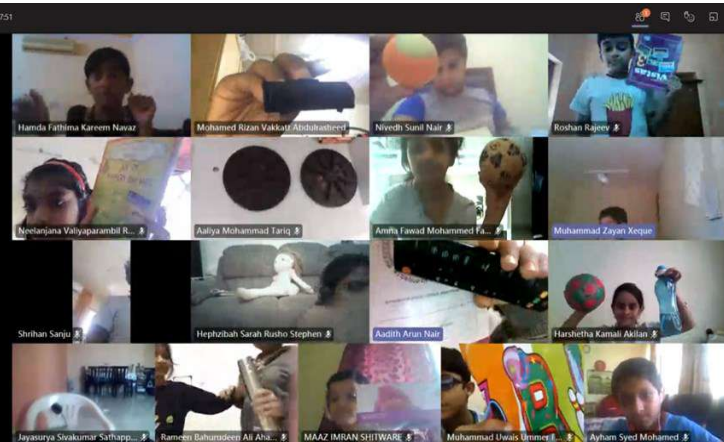
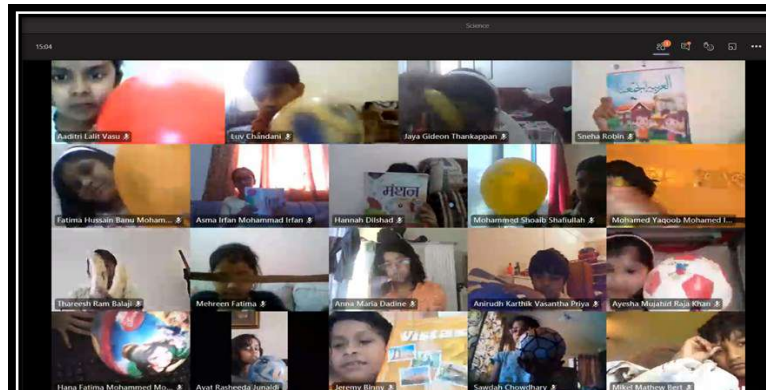
The Emirates Mars Mission team includes 170 Emirati Engineers.

United Arab Emirates

By: Osama, G.

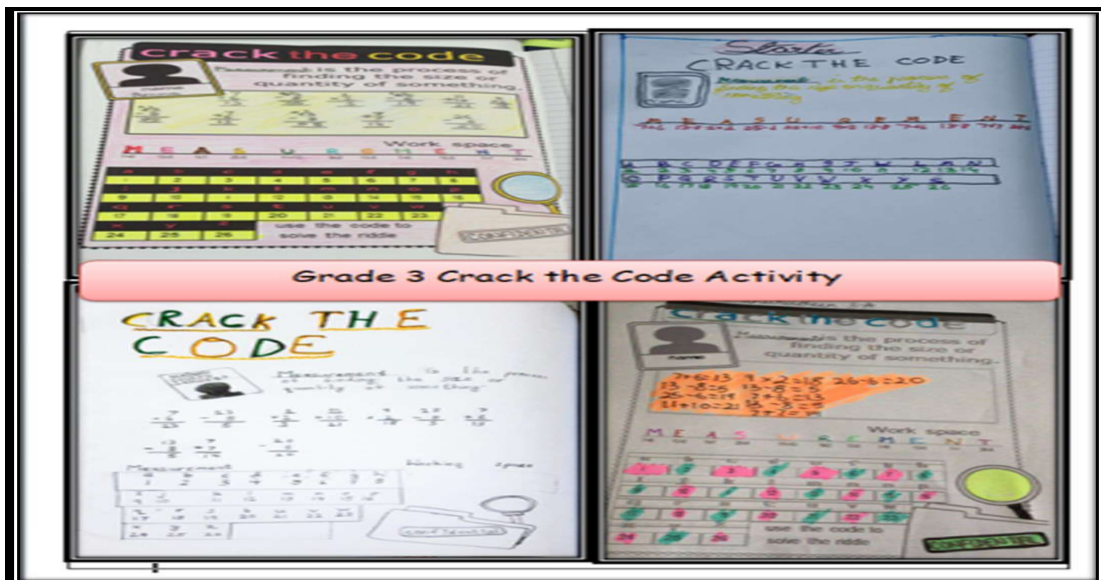
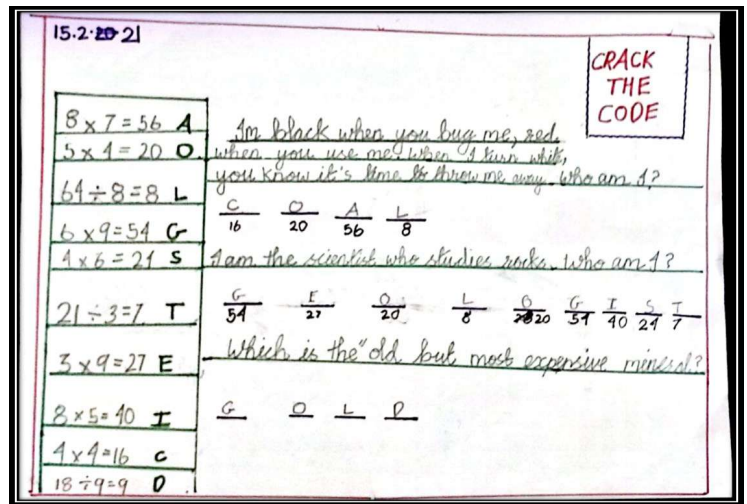
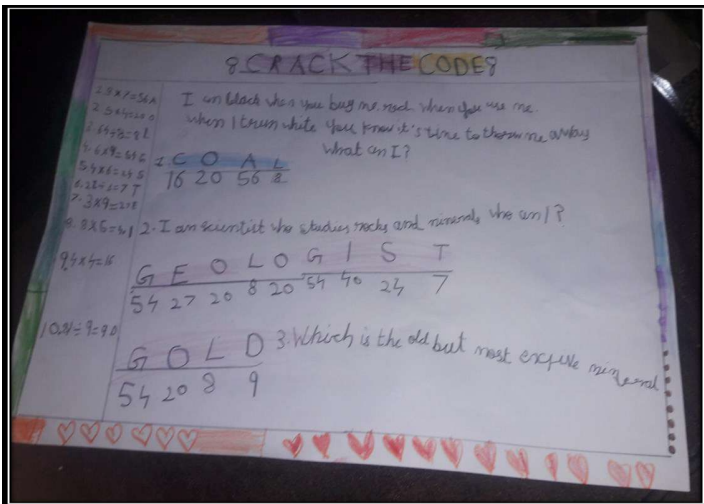
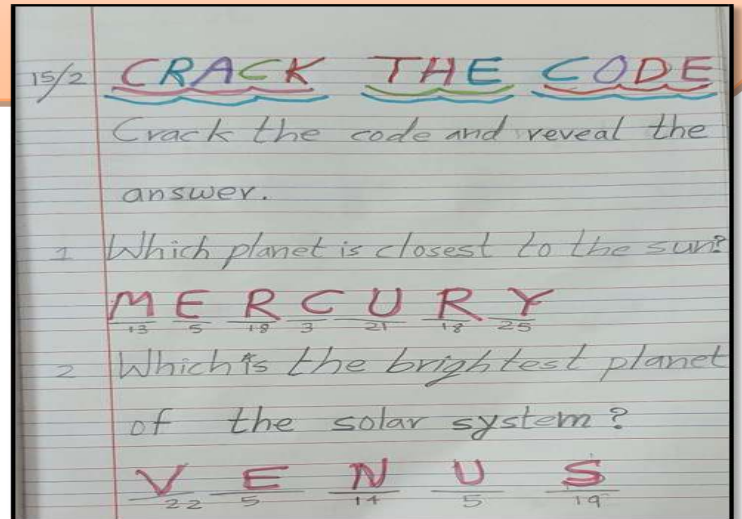
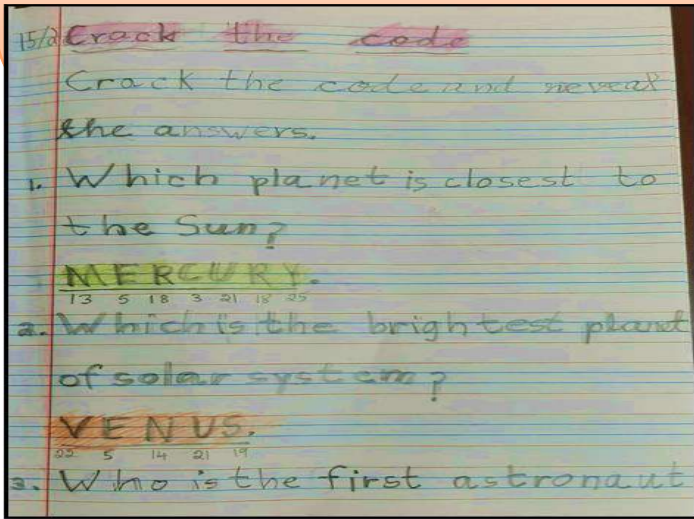
SCAVENGER HUNT

A **virtual scavenger hunt** is an online experience based on the traditional game that challenges players to find specified items or solve puzzles before the allotted time runs out. Students of Grade 1 –6 hunted the items in their own space and shared their findings virtually. Students enjoyed doing the activity and it was a perfect recipe for escalating fun and also a memorable virtual event.



Crack the Code

Crack the code is a great way to get the children focus on problem-solving. Students of Grade 1 -3, cracked the code and discovered the interesting facts .



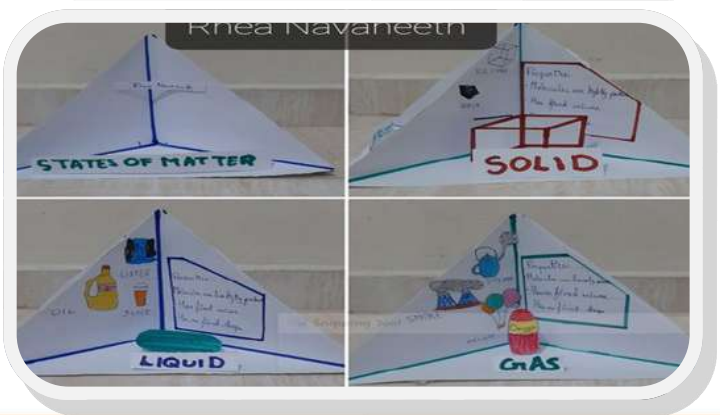
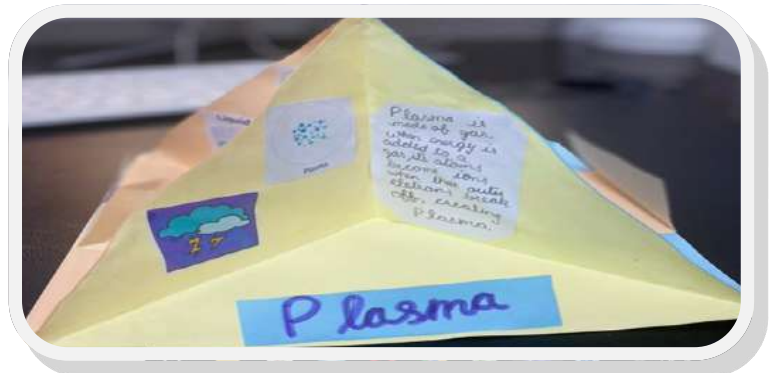
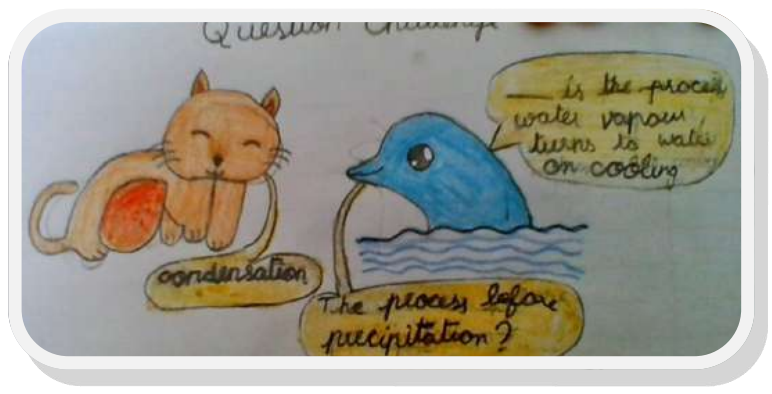
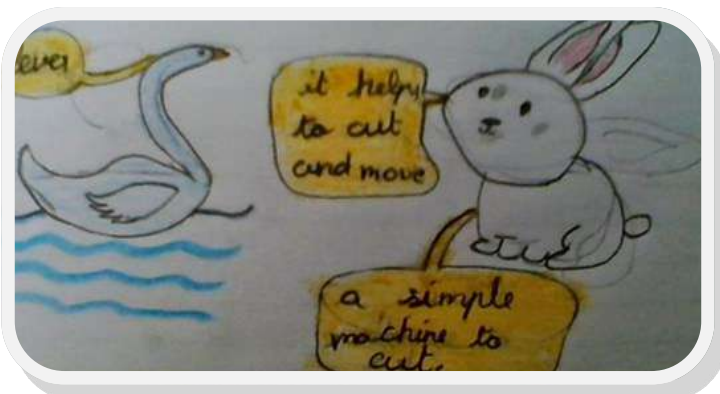
Poster Making & Design your own mask

Since coronavirus become a pandemic around the world, students of Grade 1 created a poster about covid-19 awareness. Students of Grade 2 designed, decorated and coloured their own face mask and discussed why face masks are important in specific situations.



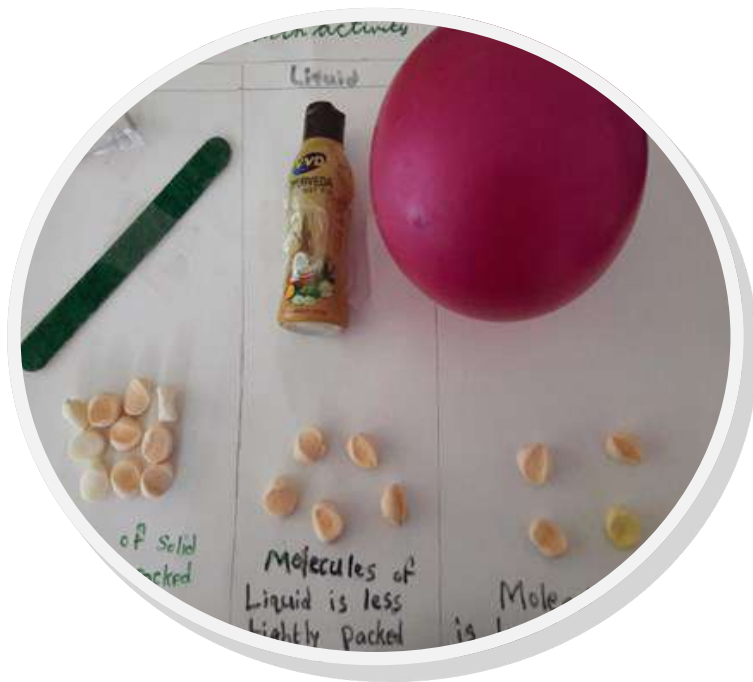
Question Challenge & Matter Art

The students of grade 4 prepared critical thinking questions for the answers given by the teacher. They decorated their note book page with their questions. This activity helped them to think better. They also enjoyed the art of making diorama on states of matter. They collected the information and samples & displayed well on the Diorama. They showcased their talent and creativity through this activity.



Science allows me to experiment

Students of Grade 5 pasted the pictures of matter where they were exposed to hands on experience to observe the different states of mattersolids, liquids and molecular arrangement of different states of matter. Children's observational skills ,time management and presentation skills were tested and they also projected their findings in the form of pictures and presented the topic in the class .



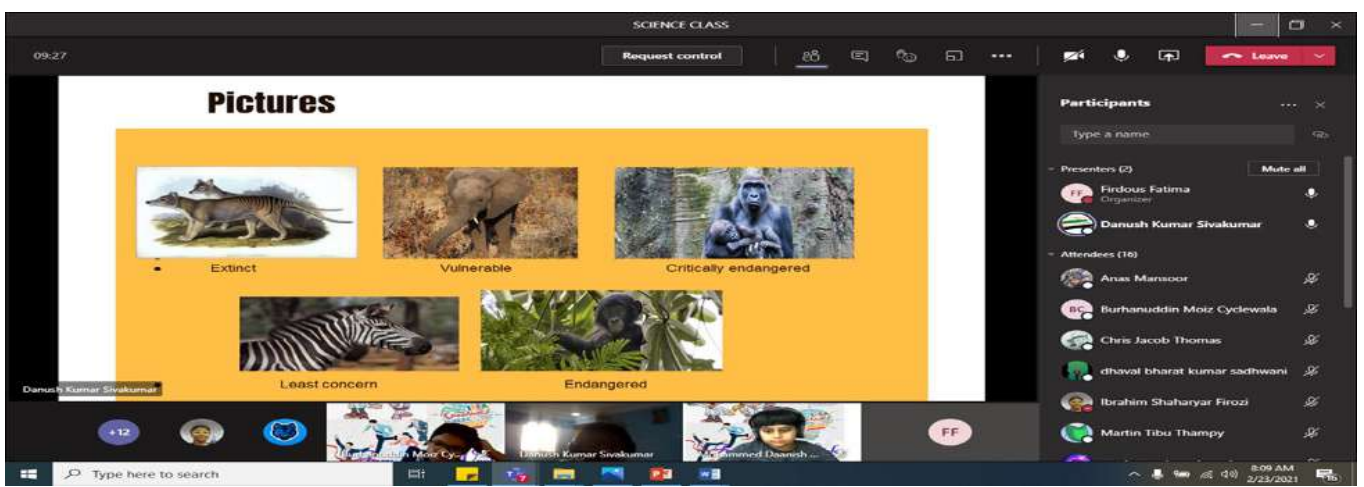
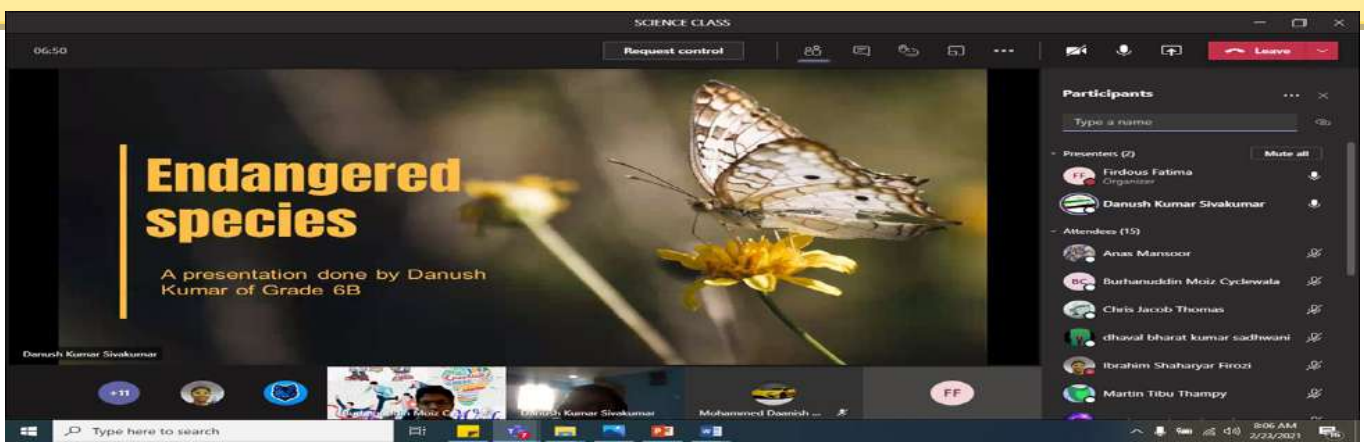
Flipped

Classroom

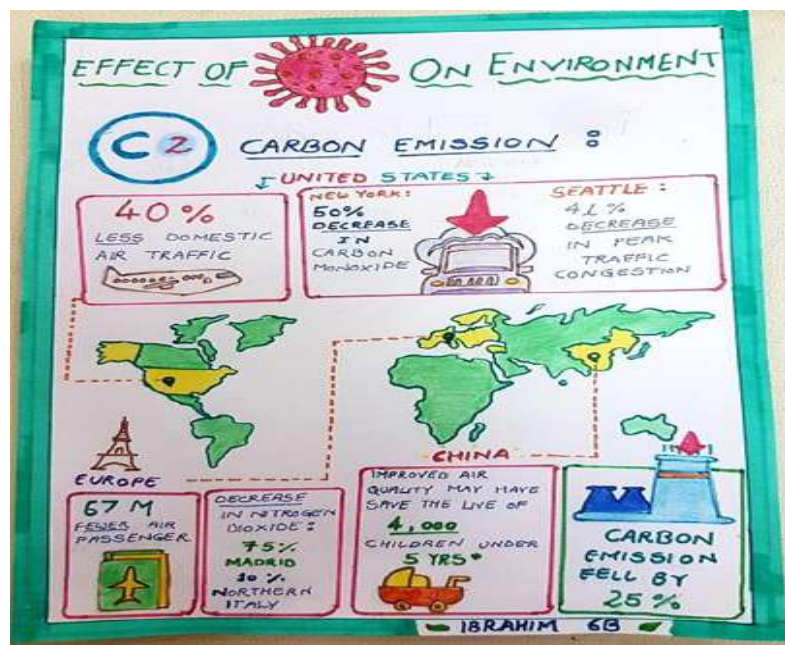
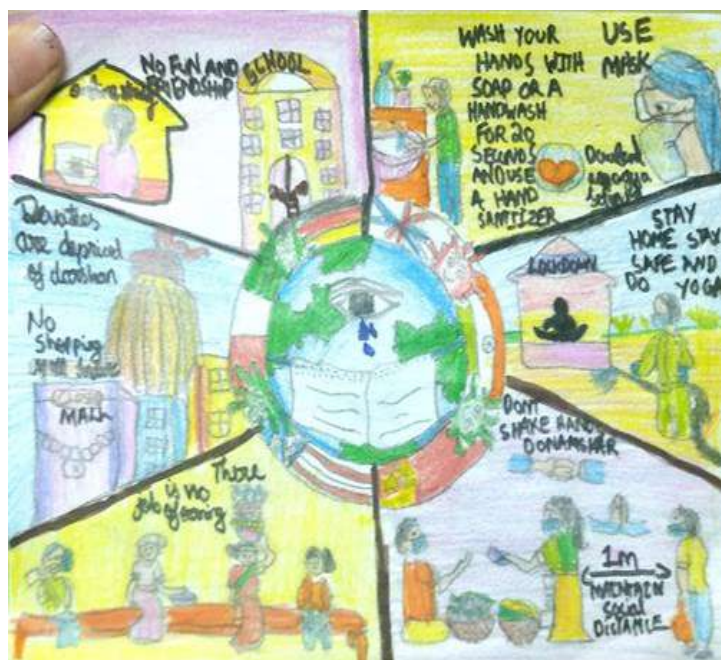


Instruction at home

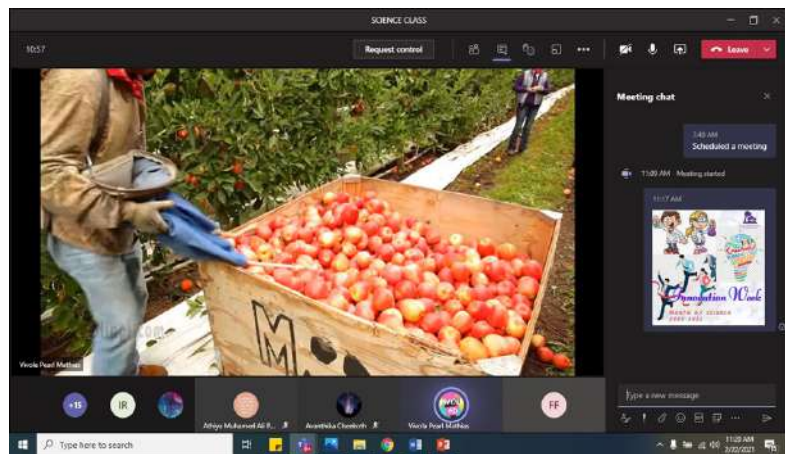
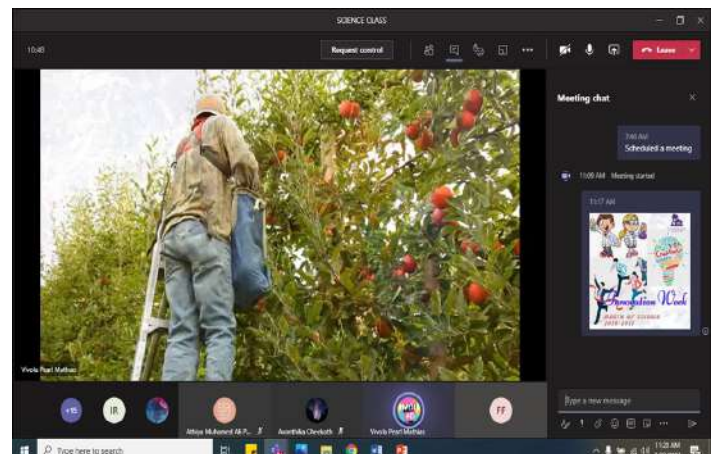
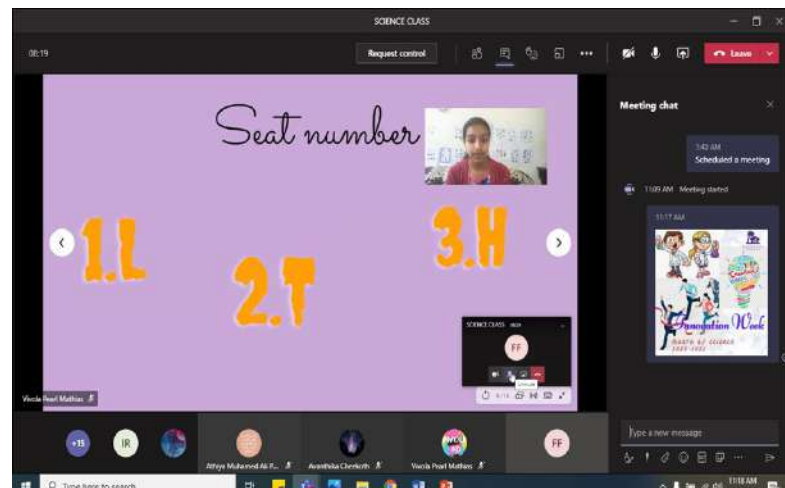
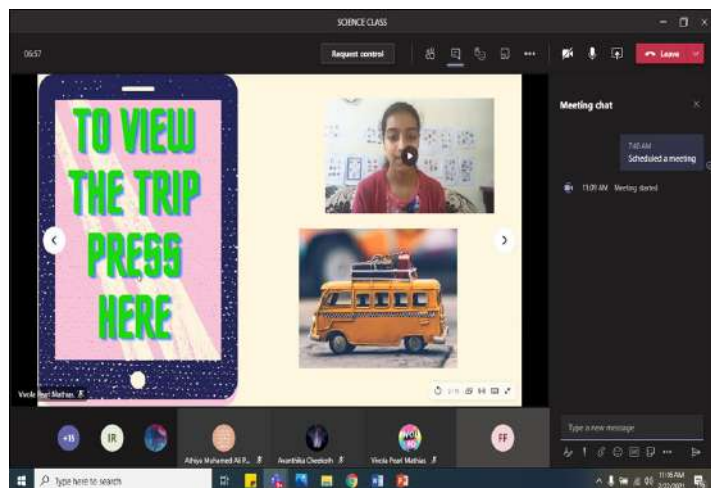
Flipped classroom activity by the students of Grade-6 on the topics- endangered species , extinct species , aquatic plants and animals.



Grade 6-Effects of Covid-19 on Environment



VIRTUAL TRIP TO ORGANIC FARM OF APPLE BY VIVOLA OF GR-6D





OH YEAH
IT'S
COMPETITION
TIME

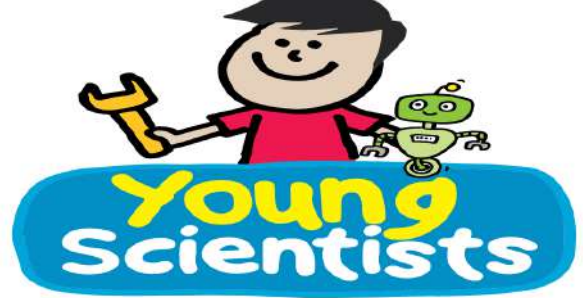
Alain Juniors Primary organized various competitions in the month of Science. Students of Grades 1-6 participated in the competitions. The objective of the competitions was not only to inculcate scientific attitude and research mindedness but also create interest in science. Class wise different activities were organized. Students participated actively & they were excited to conduct the activities assigned to them.

Eat Right Get Active

EAT CLEAN
DRINK WATER
STAY ACTIVE
BE HEALTHY



Everything is theoretically impossible, until it is done.



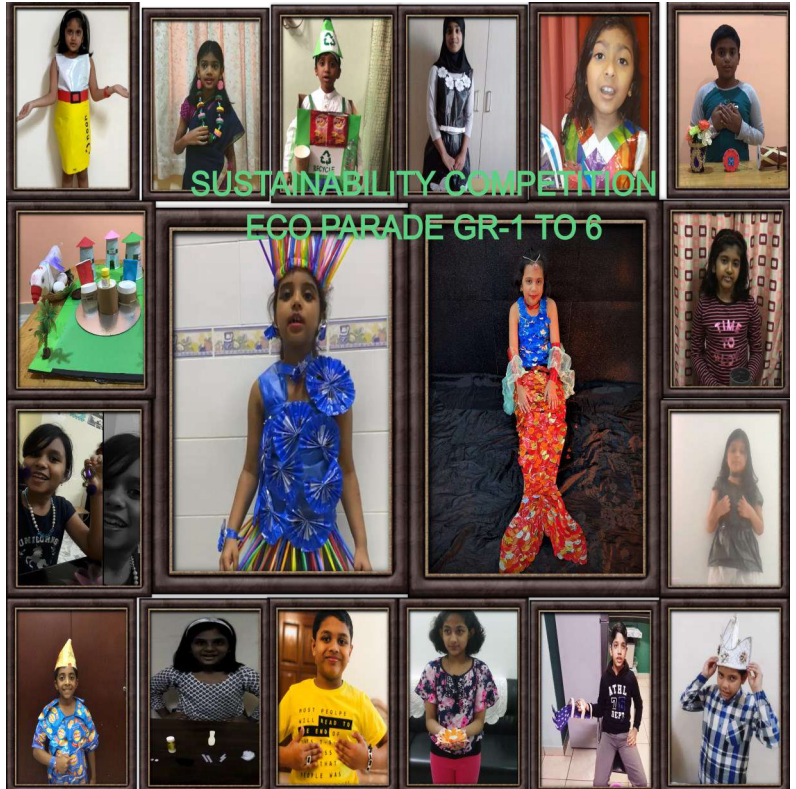
Innovators Challenge



INNOVATORS CHALLENGE GR-1 TO 6



Sustainability Eco Parade



YOU DID IT!
Congratulations



Congratulations to Jayasurya Sivakumar of Grade 3A for being the Gold Topper in the 6th International Online Abacus Competition-Brainobrainfest 2021



Thank You!