

MARINA INTERNATIONAL SCHOOL

SCIENCE SCHEME OF WORK

YEAR 2 - TERM 1

WEEK	TOPIC	TOPIC DETAILS
1.1	Environment	To learn about different plants and animals and the places they live.
1.2	Animals and their off springs.	To learn about animals found in local habitats/environment.
1.3	Observation	To observe animals found in our local environments.
2.1	Comparing animals	To compare how animals are similar or different from human beings.
2.2	Identification of local environments	To identify similarities and differences between the local environments.
2.3	Changes in growth in animals and humans	To be able to describe the changes of offspring of animals and humans as they become older.
3.1	Animals and their offspring	To know that animals and humans produce offsprings that have a combination of features from their parents.
3.2	Animals and plants	To know that an environment in which a plant or animal naturally lives is its environment.
3.3	Practical activity	
4.1	Different habitats with different plants and animals.	Know that different habitats contain different plants and animals.
4.2	Creating scientific diagrams (practical activity)	Know that a model represents an object or idea in a clear way.
4.3	Differences between a diagram and a picture	Describe the differences between a diagram and a picture.

WEEK	TOPIC	TOPIC DETAILS
5.1	Sorting objects, materials and living things	To sort materials based on observation of similarities and differences between them
5.2	Compare animals and humans body parts	To compare how animals including humans are similar and different in their external body parts and skin covering.
5.3	Collect and record observation	To collect and record observations or measurement by annotating images and completing simple tables.
6.1	ACROSS THE BOARD TEST ONE	ACROSS THE BOARD TEST ONE
7.1	Similarities and differences between local environments.	Identify similarities and differences between local environments in terms of hot, cold, dry, wet, many plants, few plants, many animals and few animals.
7.2	Changes in growth.	Describe how the offspring of animals, including humans, change as they become older
7.3	similarities between parents and offspring.	Know that animals, including humans, produce offspring that have a combination of features from their parents.
8.1	Exploring different habitats. (Observation of School habitats).	Know that the environment in which a plant or animal naturally lives is its habitat.
8.2	Different habitats with different plants and animals.	Know that different habitats contain different plants and animals.
8.3	Sorting and grouping of plants and animals	Sort and group objects, materials and living things based on observations of the similarities and differences between them.
8.4	8.4 and 8.5 MID-TERM BREAK	8.4 and 8.5 MID-TERM BREAK
9.1	Collect and record observations.	Collect and record observations and/or measurements by annotating images and completing simple tables
9.2	Healthy, unhealthy, diet.	Know that humans need to manage diet, maintain hygiene and move regularly to be healthy.
9.3	How do we stay healthy?	Know that humans need to manage diet, maintain hygiene and move regularly to be healthy.

WEEK	TOPIC	TOPIC DETAILS
10.1	Using model to represent an object or idea.	Know that a model represents an object or idea in a clear way.
10.2	Keeping fit.	Know that in order to be healthy, we need to move regularly. Discuss different ways of keeping active (e.g. walking, playing sports, dancing, helping family members with housework).
10.3	Investigate how exercise affects our body.	Explain to learners that they are going to investigate how moving affects their bodies. They will observe how they feel after different amounts of movement, measuring our movement in steps. In a large space (e.g. playground) learners take 10 energetic steps (i.e. jog, brisk walk) and then consider how they feel.
11.1	ACROSS THE BOARD TEST TWO	ACROSS THE BOARD TEST TWO
12.1	Illness	Describe what illness is and describe the common signs of illness in humans.
12.2	Signs of illness	Identifying common signs of illness.
12.3	How do we prevent illness?	To know how we can prevent ourselves from getting sick.
13.1	The different types of human teeth.	Identify the different types of human teeth.
13.2	Functions of the teeth.	Explain how they are suited to their functions and describe how to care for teeth.
13.3	Caring for our teeth.	Explain that it is important to take good care of our teeth and discuss the reasons why.
14.1	Review of term's work.	Review of term's work.
14.4	FUN DAY	FUN DAY

SCIENCE SCHEME OF WORK

YEAR 2 - TERM 2

WEEK	TOPIC	TOPIC DETAILS
1.1	Rocks	Describe and compare different types of rock.
1.2	Types of rocks	To learn about the different types of rocks.
1.3	Differences and similarities of rocks	How rocks can be different from, and similar to each other.
2.1	Sources of rocks	Know rocks are extracted from the Earth in different ways, including from quarries, mines and riverbeds.
2.2	The uses of rocks	How humans use rocks for a range of different purposes.
2.3	Identifying rocks	To be able to identify the different types of rocks found in our environments.
3.1	The Earth	Knowing that Earth is the planet on which we live and land is made of rock and soil.
3.2	Materials	To learn about the different types of materials we use in our daily lives.
3.3	Properties of materials	
4.1	Choosing materials for specific purposes.	Explain why materials are chosen for specific purposes on the basis of their properties.
4.2	Types of materials	Understand that some materials occur naturally and others are manufactured
4.3	Sorting and grouping of materials	Identifying, naming, describing, sorting and grouping common materials (e.g. wood, plastic, metal, glass, rock, paper, fabric)
5.1	Objects and materials	Understanding the difference between an object and a material.
5.2	Human activities in the environment	Know that human activity can affect the environment.

WEEK	TOPIC	TOPIC DETAILS
5.3	Testing materials	Know that materials can be tested to determine their properties.
6.1	ACROSS THE BOARD TEST ONE	ACROSS THE BOARD TEST ONE
7.1	Collect and record observations materials	Collect and record observations and/or measurements by annotating images and completing simple tables.
7.2	Making predictions	Make predictions about what they think will happen.
7.3	Making predictions for making an object	Show learners how to test whether a material is waterproof or not.
7.4	MID-TERM BREAK	MID-TERM BREAK
8.1	Light	To introduce learners to the concept of 'light sources' and 'darkness'
8.2	Sources of Light	Know that there are many light sources, including the Sun.
8.3	Darkness	Know that darkness is the absence of light.
9.1	Electricity	Identify how we use electricity and describe how to be safe with it.
9.2	Objects that use electricity	To identify things that are powered by electricity.
9.3	Uses of Electricity	To learn about the different ways we use electricity.
10.1	MID-YEAR EXAMS	MID-YEAR EXAMS
11.1	Components of simple circuits	Recognize the components of simple circuits (limited to cells, wires, and lamps).
11.2	Construction of simple series circuits	Explore the construction of simple series circuits (limited to cells, wires and lamps).
11.3	The sun	To know that the sun is the main source of light.
12.1	The movement of the sun	Describe the apparent movement of the Sun during the day.
12.2	Shadow	To help learners understand what causes a shadow.
12.3	How shadow changes (Observation)	How shadow changes (Observation)

WEEK	TOPIC	TOPIC DETAILS
13.1	Review of term's work with practical activities	To help strengthen learners' understanding of previous lessons taught.
14.1	Review Term's work	Review Term's work
14.4	Fun Day	Fun Day

SCIENCE SCHEME OF WORK

YEAR 2 - TERM 3

WEEK	TOPIC	TOPIC DETAILS
1.1	Forces	To know what a force is.
1.2	How forces change the movement of objects	Know that forces can change the movement of an object.
1.3	What causes an object to speed up, slow down or change direction?	Recognize that things will only speed up, slow down or change direction when something else causes them to do so.
2.1	MID-TERM BREAK	MID-TERM BREAK
3.1	Properties of materials	Know that materials can be tested to determine their properties.
3.2	Properties of materials	Explain why materials are chosen for specific purposes on the basis of their properties.
3.3	Changing materials	
4.1	ACROSS THE BOARD TEST	ACROSS THE BOARD TEST
5.1	Sorting materials	Sort and group objects and materials based on observations of the similarities and differences between them.
5.2	Testing materials	Explain that different materials have different properties and that scientists carry out tests on new materials, as they are discovered or created, to find out the properties of these materials so that they can be put to the best uses possible.
5.3	Presenting data (observation data/result)	How to present result on a data or chart.

WEEK	TOPIC	TOPIC DETAILS
6.1	Polar explorer	To help learners understand what is a polar explorer.
6.2	Similarities and differences between local environments	Identify similarities and differences between local environments in terms of hot, cold, dry, wet, many plants, few plants, many animals and few animals.
6.3	Animals and plants habitats	Know that the environment in which a plant or animal naturally lives is its habitat.
7.1	How animals and humans are similar	Compare how animals, including humans, are similar and different in their external body parts and skin covering
7.2	How to keep healthy.	Know that humans need to manage diet, maintain hygiene and move regularly to be healthy.
7.3	How to keep healthy.	Continuation of the lesson.
8.1	END OF YRAR ASSESSMENT	END OF YRAR ASSESSMENT
9.1	Polar Animals	To learn about animals that live in the polar region.
9.2	Why Polar Bears are white	To learn why polar bears are white in colour.
9.3	Polar Bears and their adaptations	To learn about polar bears and their adaptations.
10.1	Adaptations of people and animals in the arctic regions.	To learn about how humans and animals adapt in the arctic region.
10.2	Polar Climate Change	Help students explore and understand climate change with particular attention to the impact of climate change on the polar regions.
10.3	How do humans and animals keep warm in Polar region?	Pupils can investigate the insulating properties of materials and design suitable clothing for polar explorers and also consider how the adaptations of Arctic organisms help develop insulating materials.
11.1	Review of term's work	Review of term's work
11.4	LAST DAY OF SCHOOL	

