



مدرسة القديسة مريم الكاثوليكية الثانوية – دبي
ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

Portion for the Final Assessment and GL exam – MAY/June, 2022

Year 6

Subject: Science

Unit 1: Classifying Living things

- Seven life processes of living things.
- Simple and complex classification of living organisms based on observable features.
- Classification keys.
- Classifying plants and animals.
- Characteristics of (vertebrates) fish, birds, reptiles, amphibians, mammals.
- Characteristics of (invertebrates) arthropods, mollusks and worms.

Unit 2: Microorganisms

- Features of microorganisms and their examples.
- Conditions necessary for the growth of microbes.
- Their role in food production, and making of compost.
- Diseases caused by microbes.
- Harmful microbes - its ill effects and safety precautions to avoid being affected by them.
- Methods to preserve different foods.

Unit 3: Our Body Systems, Heart and Circulation

- Identifying and describing body systems: circulatory, digestive skeletal, muscular, nervous and muscular system.
- Position and function of the heart.
- Position of lungs in the thorax.
- Components and functions of the blood.
- Blood vessels and their functions.
- Chambers of the heart and Blood's journey.
- Exchange of gases/ Breathing and Respiration.
- Exercise and pulse rate.
- Different food groups, sources and their functions.
- Balanced diet and nutrients.
- Impact of drugs and lifestyle on our bodies.

Unit 4: Plant Life Cycles

- Sequence the life cycle of a typical flowering plant
- Life cycle of a non flowering plant.
- Parts and functions of insect pollinated flowers
- Name the male and female reproductive structures of a flower.
- Conditions required for the germination of seeds
- Different mechanisms by which seeds are dispersed.
- Distinguish between pollination and fertilization in plants.

UNIT 5: Light

- How light travels.
- How we can see things.
- Light sources and reflectors
- Natural and artificial light sources.
- Transparent, translucent and opaque objects.
- How light travels in a periscope
- Distinguish between regular and irregular reflection
- Light reflection on shiny, smooth surfaces, mirrors.
- High Vis- clothing
- Shadows – Investigation on shadows
- Working Scientifically on Light

Unit 6: Changing Circuits

- Electrical components(bulb, buzzer, motor, switch, wire) and their use
- Identify Symbols for electrical components in circuits.
- Draw circuit diagrams.
- Record faults that would stop a circuit from working.
- Recognize some common conductors and insulators
- Identify complete and incomplete circuits.
- Relationship between batteries and the brightness of bulbs.
- Relationship between number of components and the brightness of bulbs.
- Relationship between length of wire and the brightness of bulbs.
- Relationship between thickness of wires and the brightness of bulbs.
- Compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches.
- Difference between Series and Parallel circuits.

Unit 7: Evolution and Inheritance.

- Know how living things have evolved over time.
- Information provided by Fossils.
- How fossils are formed.
- Natural Selection and Selective breeding.
- Inheritance - Similarities and Variation
- How animals and plants are adapted to suit their environment.

Scientific Enquiry

(Questions on Scientific Enquiry and Investigations will be asked across all the topics)

- Scientific ideas
- Planning different types of scientific enquiries to answer questions, including Recognising and controlling variables where necessary
- Investigating
- Obtaining and presenting evidence from tables/pictures etc.
- Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- Conclusions .
- Evaluating.

TOPICS done in Previous Years

- Earth and space (done in yr 5)
- Forces in air and water and simple machines. (done in yr 5)
- Solids, liquids and gases (done in Year 4 and 5)
- Mixing and separating materials. (yr 5)
- Reversible and irreversible changes. (yr 5)
- Feeding relationships (done in Year 4)
- Rocks and soil (done in Year 3)
- Magnets (done in Year 3)

Questions on Scientific Enquiry and Investigations will be asked.

Revise from the notes, Topic Book, Work Book, all PPTS sent, posted video links Active learn resource, Google Form Practice Papers and some recommended websites example:

<https://www.ixl.com/>

<https://wordwall.net/en-gb/community/science>

<https://quizizz.com>

Revision material will be uploaded on GC, after the Spring break.