



# مدرسة القديسة مريم الكاثوليكية الثانوية – دبي

## ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

Portion for the Final Assessment and GL exam – MAY/June, 2023

**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: 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 5: 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 6: Evolution and Inheritance.**

- Know how livings 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**

- Forces in air and water and simple machines. (done in yr 5)
- Earth and space (done in yr 5)
- Plant Life Cycles (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)
- Skeleton and Muscles (year 3 topic)
- Sounds (Year 4)

**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.**