



YEAR 4 SCIENCE FINAL EXAM AND GL PORTION – MAY/JUNE, 2023

UNIT 1 - VARIATION & CLASSIFICATION

- Group and classify living things using simple dichotomous keys.
- Name and describe the characteristics of some new species.
- Compare & Contrast the characteristic features of living things from different habitats.

UNIT 2 – DANGERS TO LIVING THINGS

- Changes in environments that can sometimes pose dangers to living things (e.g. deforestation, wild fires etc)
- How environments are changed in positive ways to reduce the effects of environmental change (e.g. the creation of nature reserves, conservation etc)
- Construct and interpret a variety of food chains, identifying producers, predators and prey.
- Recognise ways in which living things and the environment need protection, both locally and globally.
- Endangered/Extinct species.

UNIT 3 – CHANGES OF STATE

- Three states of matter & their properties (solids, liquids and gases).
- Changes in the state of materials when they are heated or cooled.
- Temperature & Thermometer
- Properties of the three states of water.
- Different substances that change state at different temperatures.
- Explain the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

UNIT 4 – ELECTRICITY

- Common appliances that run on mains electricity /battery power.
- Constructing a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.
- Draw circuit diagrams using the correct symbol for each component.
- Source of electricity in a circuit and how it works.
- Function of a switch in a circuit.
- Identify whether or not a lamp will light in a simple series circuit
- Electrical conductors and insulators.
- Explain how bulbs can get brighter in a circuit.

UNIT 5 – SOUND

- The source of a sound and how sound can travel through solids, liquids and gases.
- How sound travels & how we are able to hear sounds.
- Measuring Volume of sound and the unit used (decibel- dB)
- Find patterns between the pitch of a sound and features of the object that produced it.
- Find patterns between the volume of a sound and the strength of the vibrations that produced it.

- Identify and describe features of an object that can be changed to alter its pitch, for e.g. length of tube, length of string and tension of string.
- Explain how sounds get fainter as the distance from the sound source increases.
- How some materials are effective in preventing vibrations from sound sources reaching the ear (e.g. Ear muffs) .

UNIT 6 – HUMAN NUTRITION

- Main benefits of each food group, with examples.
- The process of digestion & functions of the human digestive system.
- Different types of teeth in humans and their simple functions.
- Explain what damages the teeth and how to look after them.
- Compare and suggest reasons for the differences in animal teeth - Herbivores, Carnivores & Omnivores.

Topics done in previous years

- Parts of a plant & What plants need (Year 3)
- Skeleton & Muscles (Year 3)
- Magnets (Year 3)
- Rocks & soils (Year 3)
- Light & Shadows (Year 3)

Questions based on Scientific Inquiry Skills related to the above topics

- Reading/Interpreting data using simple scientific language to answer questions.
- Science investigation /Fair testing & scientific variables.
- ❖ **Revise from Science Bug Topic Book, Work Book, Active learn Resources, Power point presentations and other revision materials posted on GC.**
- ❖ **Explore the following recommended websites to practice online for GL exam:**
 - <https://wordwall.net/en-gb/community/science>
 - <https://quizizz.com>