

**St. Mary's Catholic High School-Dubai**

**Year 5    Subject: Science**

**PORTION FOR THE GL EXAM –MAY, 2022**

**Unit 1 & 2: Life cycles of Plants & Animals including Humans**

- Differences in the life cycle of a mammal, an amphibian , an insect and a bird.
- Life process of reproduction in some animals.
- Identify flowering and non flowering plants.
- Parts and functions of a flower including male and female reproductive structures.
- Reproduction in flowering plants – Germination, Pollination, fertilization and seed dispersal.
- Stages of the human lifecycle

**Unit 3: Materials**

- Compare /Group materials on the basis of their properties, including hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets
- Electrical & Thermal conductors
- Thermal conductors and insulators
- Use of everyday materials including metals, wood and plastic.

**Unit 4: Separating Mixtures**

- Properties of solids, liquids and gases.
- Separation of mixtures through filtering and sieving and using a magnet.
- Factors affecting the rate of dissolving, recovery of dissolved solids from a solution.
- Factors affecting the rate of evaporation.
- Properties of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving, evaporating and using a magnet.

**Unit 5: Types of Change**

- Temperature affecting changes of state-melting , freezing , evaporation and condensation
- Role of evaporation & condensation in the Water cycle.
- Reversible changes and Irreversible changes-
- Describe simple observable changes when acid and bicarbonate of soda are mixed.

## Unit 6 : Earth and Space

- The Solar system- movement of the Earth and planets relative to the Sun.
- Earth's rotation and the apparent movement of the sun.
- The Moon and its movement; phases of the moon.
- Shape and size of the Sun, Earth and Moon.
- Varying Shadow lengths.

## Unit 7: Forces in Air & Water

- Effect of the force of gravity.
- Friction-advantages and disadvantages
- Effects of air resistance ,water resistance and friction acting between moving surfaces
- Streamlining- to reduce the effects of air and water resistance.

## Unit 8 : Simple Machines

- Simple mechanisms, including levers, pulleys and gears.

## Scientific Enquiry

- Read and interpret data to answer questions related to scientific enquiries.
- Investigating / Obtaining and Presenting evidence (observation) & Conclusions
- Identifying the different variables in an investigation.
- Recording findings using simple scientific language, drawings, labeled diagrams, bar charts, and tables.

### TOPICS done in Previous Years

- Rocks and soil (done in year 3)
- Light and shadows (done in year 3)
- Magnets (done in year 3)
- Skeleton & Muscles (done in year 3)
- Feeding relationships (done in Year 4)
- Human Nutrition (done in Year 4)
- Electricity (done in Year 4)
- Sound (done in Year 4)
- Variation and Classification (done in Year 4)
- Habitat (done in year 4)
- Dangers to living things (done in Year 4)

- **Questions on Scientific Enquiry and Investigations will be asked from the above topics.**
- **Revise from the Notes, Topic Book, Work Book, PPT's with video links, Active learn Resources and Revision materials**
- **Revision materials like Topic-wise Google Forms and Worksheets will be posted on GC after the Spring Break.**
- **Explore the following recommended websites:**

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