

IMMACULATE CONCEPTION HIGH SCHOOL

GRADE 7 GENERAL SCIENCE SYLLABUS

2017-2018

TERM 1

1. WORKING LIKE A SCIENTIST

- Relationship between Science and Technology
- Methods of scientific investigation
- Works of some Jamaican Scientists
- Safety in scientific work; signs and symbols in the environment
- Careers in Science
- Using Classification as a Science process skill to classify animals and plants

2. NATURE OF MATTER

- Physical properties of matter; particulate nature of matter
- States of matter
- Effects of temperature on matter

3. Energy

- Forms of energy
- Energy conversions
- Sources of energy- renewable and non-renewable
- Energy Conservation

TERM 2

- Energy (contd.)Significance of alternative energy sources to the Caribbean society

4. CELLS

- Plant and Animal cells- organelles and their functions
- Similarities and differences between plant and animal cells
- Specialized plant and animal cells
- Contribution of cells in organisms

5. Investigation of Diffusion and Osmosis

Experiments related to diffusion and osmosis

6. Sexual Reproduction

- Changes during puberty and adolescence
- The Male and Female Reproductive Systems
- The formation of a zygote and its development into a foetus
- Role of hormones in the Menstrual Cycle
- Personal hygiene for healthy living.

TERM 3

7. Sexually transmitted diseases

- Irresponsible living
- Drug use and abuse; effects on human body and society
- Responsible sexual behavior and healthy living

9. Plant reproduction

- Sexual reproduction in plants
- Asexual methods of reproduction in plants
- Vegetative propagation of plants
- Importance of plants

10. Climate change

- Greenhouse effect and Global Warming; gases and their sources
- Climate change and its effects in the Caribbean
- Man's impact on climate change; positive and negative aspects
- Role of environmental protection agencies