

MEADOWBROOK HIGH SCHOOL
GRADE 7 INTEGRATED SCIENCE CURRICULUM
2019-2020 Academic Year

TERM 1

1. WORKING LIKE A SCIENTIST	<ul style="list-style-type: none"> • Relationship between Science and Technology • Works of some Jamaican and International Scientists • Safety in science; Lab rules, safety signs and symbols • Scientific Method; Writing lab reports • Engineering Design Process; Building prototypes • Fair Test: Identifying variables • Fundamental Quantities; Measuring instruments • Graphs: Pie charts, bar and line graphs
2. NATURE OF MATTER	<ul style="list-style-type: none"> • States of Matter; Examples • Physical properties of solids, liquids, gases • Particulate theory of matter • Change of state of matter • Effects of temperature on matter
3. CELLS	<ul style="list-style-type: none"> • 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 •

TERM 2

4. ENERGY	<ul style="list-style-type: none"> • Forms of energy; kinetic and potential • Energy conversions • Sources of energy- renewable and non-renewable • Energy Conservation • Significance of alternative energy sources to the Caribbean society
5. PLANT REPRODUCTION	<ul style="list-style-type: none"> • Reproductive Structures of a flower • Agents of pollination: • Wind versus insect pollinated flowers • Fertilization process: development of ovary into fruit • Asexual methods of reproduction in plants • Make annotated drawings of seeds and fruits • Calculate magnifications of drawings
6. SEXUAL REPRODUCTION IN HUMANS	<ul style="list-style-type: none"> • Changes during puberty and adolescence • The Male and Female Reproductive Systems • The formation of a zygote and its development into a foetus • The Menstrual Cycle • Personal hygiene for healthy living.

TERM 3

7. SEXUALLY TRANSMITTED DISEASES	<ul style="list-style-type: none"> • Irresponsible living • Drug use and abuse; effects on human body and society • Responsible sexual behavior and healthy living
8. CLIMATE CHANGE	<ul style="list-style-type: none"> • 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