St. Mary's College

Integrated Science

Form Three

Course Outline

Term 1

Proposed Date/ Week	Unit/ Section	Topics	Modules
1-3	01	Human Body Systems: The Reproductive Systems	• Definition of Reproduction • Types of reproduction:- asexual ans sexual • Puberty
	O2		• Male reproductive structures • Female reproductive structures • Gametes:- sperm and egg • Menstrual cycle
	03		• Fertiflisation- union of sperm and egg • Formation of zygote, embryo and foetus • Pregnancy • Reproductive challenges- birth control and family planning.
4-6	01	Communicable Diseases of the Reproductive System	• Herpes, chlamydia and humanpapilloma virus • Gonorrhoea, syphilis and HIV
	02		• Transmission and prevention of STDs • HIV and AIDS: Contracting and livingwith HIV/AIDS
7-9	01	Environmental Impact of Human Activities	• Effect of human activities on theenvironment • Urbanisation • Industry
	02		• Genetically modified crops • Invasive alien species • Nature reserves • Deforestation
	03		• Biodiversity • Threatened species in Trinidad andTobago • Global warming
	04		• The greenhouse effect • Biodegradable and Non-biodegradable

	05		• Reducing demand to reduce waste • Reusing to reduce waste • Recycling to reduce waste • Improving the local environment

9-11	01	Electricity	• Conductors and insulators • Electricity and safety • Complete circuit
	02		• Cells and lamps • Measuring current • Circuit symbols
	03		• Constructing circuits from circuitdiagrams • Connecting components in series • Connecting components in parallel
Wk 12			Revision and Assessment

Term 2

Proposed Date/Week	Unit/Section	Topic	Modules
Wk 1	05	Magnetism	• Magnetic and Non-magnetic materials • Law of magnetic poles • Magnetic fields
Wk 2			• Magnetic effect of an electric current • Making an electromagnet
Wk 3			• Strength of an electromagnet • Uses of permanent magnets and electromagnets
Wk 4	06	Light	• Light rays • Pinhole camera • Transparent, translucent and opaque
Wk 5			• Shadows • Partial and full shadow • Solar eclipse • Lunar eclipse
Wk 6			• Reflection • Refraction • Real and apparent depth

Wk 7			• Dispersion • Rainbows
Wk 8	07	Chemical Bonding	• Formation of ions • Gaining and losing different number of electrons
Wk 9			• Valency
Wk 10			• Different atoms sharing electrons • Diatomic molecules
Wk 11			• Metallic bonding
Wk 12			Revision and Assessment

Term 3

Proposed Date/Week	Unit/Section	Topic	Modules
Wk 1	08	Acids and Alkalis	• Identifying acids • Strength of an acid
Wk 2			• Identifying alkalis • Strength of an alkali
Wk 3			• Acid-alkali reactions • Neutralisation and its products
Wk 4			• Acid-oxide reactions • Acid- carbonate reactions
Wk 5			• Acid-metal reactions
Wk 6			• Completing equations
Wk 7			• Revision
			• NCSE and End of Year Examinations