

# St. Mary's College

## Integrated Science

### Form Three

### Course Outline

#### Term 1

Unit/ Section	Topics	Modules
01	Human Body Systems: The Reproductive Systems	<ul style="list-style-type: none"><li>• The male reproductive system</li><li>• The female reproductive system</li></ul>
02	Communicable Diseases of the Reproductive System	<ul style="list-style-type: none"><li>• Herpes, chlamydia and human papilloma virus</li><li>• Gonorrhoea, syphilis and HIV</li><li>• Transmission and prevention of STDs</li><li>• HIV and AIDS: Contracting and living with HIV/AIDS</li></ul>
03	Environmental Impact of Human Activities	<ul style="list-style-type: none"><li>• Effect of human activities on the environment</li><li>• Urbanisation</li><li>• Industry</li><li>• Genetically modified crops</li><li>• Invasive alien species</li><li>• Nature reserves</li><li>• Deforestation</li><li>• Biodiversity</li><li>• Threatened species in Trinidad and Tobago</li><li>• Global warming</li><li>• The greenhouse effect</li><li>• Biodegradable and Non-biodegradable</li><li>• Reducing demand to reduce waste</li><li>• Reusing to reduce waste</li><li>• Recycling to reduce waste</li><li>• Improving the local environment</li><li>•</li></ul>
04	Electricity	<ul style="list-style-type: none"><li>• Conductors and insulators</li><li>• Electricity and safety</li><li>• Complete circuit</li><li>• Cells and lamps</li></ul>

		<ul style="list-style-type: none"> <li>• Measuring current</li> <li>• Circuit symbols</li> <li>• Constructing circuits from circuit diagrams</li> <li>• Connecting components in series</li> <li>• Connecting components in parallel</li> </ul>
		Revision <b>Christmas Examinations</b>

## Term 2

Unit/Section	Topic	Modules
05	Magnetism	<ul style="list-style-type: none"> <li>• Magnetic and Non-magnetic materials</li> <li>• Law of magnetic poles</li> <li>• Magnetic fields</li> <li>• Magnetic effect of an electric current</li> <li>• Making an electromagnet</li> <li>• Strength of an electromagnet</li> <li>• Uses of permanent magnets and electromagnets</li> </ul>
06	Light	<ul style="list-style-type: none"> <li>• Light rays</li> <li>• Pinhole camera</li> <li>• Transparent, translucent and opaque</li> <li>• Shadows</li> <li>• Partial and full shadow</li> <li>• Solar eclipse</li> <li>• Lunar eclipse</li> <li>• Reflection</li> <li>• Refraction</li> <li>• Real and apparent depth</li> <li>• Dispersion</li> <li>• Rainbows</li> </ul>

### Term 3

Unit/Section	Topic	Modules
07	Chemical Bonding	<ul style="list-style-type: none"><li>• Formation of ions</li><li>• Gaining and losing different number of electrons</li><li>• Valency</li><li>• Different atoms sharing electrons</li><li>• Diatomic molecules</li><li>• Metallic bonding</li></ul>
08	Acids and Alkalis	<ul style="list-style-type: none"><li>• Identifying acids</li><li>• Strength of an acid</li><li>• Identifying alkalis</li><li>• Strength of an alkali</li><li>• Acid-alkali reactions</li><li>• Neutralisation and its products</li><li>• Acid-oxide reactions</li><li>• Acid- carbonate reactions</li><li>• Completing equations</li><li>• Acid-metal reactions</li></ul>
		Revision <b>End of Year Examinations</b>