

**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></ul>
		<ul style="list-style-type: none"><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></ul>
		<ul style="list-style-type: none"><li>• Genetically modified crops</li><li>• Invasive alien species</li><li>• Nature reserves</li><li>• Deforestation</li></ul>
		<ul style="list-style-type: none"><li>• Biodiversity</li><li>• Threatened species in Trinidad and Tobago</li><li>• Global warming</li></ul>
		<ul style="list-style-type: none"><li>• The greenhouse effect</li><li>• Biodegradable and Non-biodegradable</li></ul>
		<ul style="list-style-type: none"><li>• Reducing demand to reduce waste</li><li>• Reusing to reduce waste</li><li>• Recycling to reduce waste</li></ul>

		<ul style="list-style-type: none"> <li>• Improving the local environment</li> </ul>
04	Electricity	<ul style="list-style-type: none"> <li>• Conductors and insulators</li> <li>• Electricity and safety</li> <li>• Complete circuit</li> </ul>
		<ul style="list-style-type: none"> <li>• Cells and lamps</li> <li>• Measuring current</li> <li>• Circuit symbols</li> </ul>
		<ul style="list-style-type: none"> <li>• Constructing circuits from circuit diagrams</li> <li>• Connecting components in series</li> <li>• Connecting components in parallel</li> </ul>
		Revision

## **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> </ul>
		<ul style="list-style-type: none"> <li>• Magnetic effect of an electric current</li> <li>• Making an electromagnet</li> </ul>
		<ul style="list-style-type: none"> <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> </ul>
		<ul style="list-style-type: none"> <li>• Shadows</li> <li>• Partial and full shadow</li> <li>• Solar eclipse</li> <li>• Lunar eclipse</li> </ul>
		<ul style="list-style-type: none"> <li>• Reflection</li> <li>• Refraction</li> <li>• Real and apparent depth</li> </ul>
		<ul style="list-style-type: none"> <li>• Dispersion</li> </ul>

		<ul style="list-style-type: none"> <li>• Rainbows</li> </ul>
07	Chemical Bonding	<ul style="list-style-type: none"> <li>• Formation of ions</li> <li>• Gaining and losing different number of electrons</li> </ul>
		<ul style="list-style-type: none"> <li>• Valency</li> <li>• Different atoms sharing electrons</li> </ul>
		<ul style="list-style-type: none"> <li>• Diatomic molecules</li> <li>• Metallic bonding</li> </ul>
		Revision

### **Term 3**

Unit/Section	Topic	Modules
08	Acids and Alkalis	<ul style="list-style-type: none"> <li>• Identifying acids</li> <li>• Strength of an acid</li> </ul>
		<ul style="list-style-type: none"> <li>• Identifying alkalis</li> <li>• Strength of an alkali</li> </ul>
		<ul style="list-style-type: none"> <li>• Acid-alkali reactions</li> <li>• Neutralisation and its products</li> </ul>
		<ul style="list-style-type: none"> <li>• Acid-oxide reactions</li> <li>• Acid- carbonate reactions</li> </ul>
		<ul style="list-style-type: none"> <li>• Acid-metal reactions</li> </ul>
		<ul style="list-style-type: none"> <li>• Completing equations</li> </ul>
		<ul style="list-style-type: none"> <li>• Revision</li> </ul>