



# Marymount International Academy

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## Standards and Procedures Science and Technology Sec. 3 2025-2026

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### TERM 1 (20%):

<b>Competencies Targeted</b>	<i>Competency one: Seek answers or solutions to scientific or technological problems</i> <i>Competency two: Make the most of his/her knowledge of science and technology</i>	
<b>Evaluation Methods</b>	<b>C2</b> <ul style="list-style-type: none"> <li>• Tests</li> <li>• Quizzes</li> </ul>	<b>C1</b> <ul style="list-style-type: none"> <li>• Lab participation (completing all the required steps)</li> <li>• Lab Reports</li> </ul>
<b>Topics Covered</b>	<b><u>The Material World</u></b> <ul style="list-style-type: none"> <li>○ Organization of matter</li> <li>○ Nature of matter</li> <li>○ Atoms and Molecules</li> <li>○ Mixtures and pure substances</li> <li>○ Elements and compounds</li> <li>○ Homogeneous and heterogeneous mixtures</li> <li>○ Properties of solutions</li> <li>○ Properties of matter</li> <li>○ Characteristic physical properties</li> <li>○ Characteristic chemical properties</li> <li>○ Changes in matter</li> <li>○ Physical changes</li> </ul> <ul style="list-style-type: none"> <li>○ Chemical changes</li> <li>○ Forms of energy</li> <li>○ Energy transformation and transfer</li> <li>○ Behaviour of fluids</li> <li>○ Compressible and incompressible fluids</li> <li>○ Force and pressure</li> <li>○ Calculating pressure</li> <li>○ Pressure exerted by fluids</li> <li>○ Atmospheric pressure</li> <li>○ Perception of light and sound</li> <li>○ Characteristics of waves</li> <li>○ Types of waves</li> <li>○ Electromagnetic spectrum</li> <li>○ Sound waves and speed</li> <li>○ Decibel scale</li> <li>○ Frequency and perception</li> <li>○ Light waves and speed</li> <li>○ Reflection</li> <li>○ Refraction and lenses</li> <li>○ Types of lenses</li> </ul>	

**TERM 2 (20%)**

<b>Competencies Targeted</b>	<i>Competency one: seek answers or solutions to scientific or technological problems</i>  <i>Competency two: Make the most of his/her knowledge of science and technology</i>	
<b>Evaluation Methods</b>	• Same as Term1	Same as term 1
<b>Topics Covered</b>	<b><u>Earth and Space</u></b> <ul style="list-style-type: none"><li>○ Stratigraphic layers</li><li>○ Geological time scale</li><li>○ Major stages in the history of life on Earth</li><li>○ Extinctions</li></ul>	<ul style="list-style-type: none"><li>○ Fossils</li><li>○ Astronomical Units</li><li>○ Light year</li><li>○ Location of the Earth in the universe</li><li>○ Conditions conducive to the development of life</li></ul>
	<b><u>The Living World</u></b> <ul style="list-style-type: none"><li>○ The perpetuation of life</li><li>○ The structure and function of the human cell</li><li>○ DNA and genetic diversity</li><li>○ Cell division</li><li>○ Cell specialization</li><li>○ Tissues, organs and systems</li></ul>	○

**TERM 3 (60%)**

<p><b>Competencies Targeted</b></p>	<p><i>Competency one: seek answers or solutions to scientific or technological problems</i>  <i>Competency two: Make the most of his/her knowledge of science and technology</i></p>	
<p><b>Evaluation Methods</b></p>	<p>Same as T1 and T2</p>	<p>Same as T1 and T2 <b><u>as well as science fair project</u></b></p>
<p><b>Topics Covered</b></p>	<p><b><u>The Living World</u></b></p> <ul style="list-style-type: none"> <li>○</li> <li>○ The reproductive system</li> <li>○ Stages in human development</li> <li>○ The female and male reproductive systems and organs</li> <li>○ Birth control</li> <li>○ Importance of nutrition</li> <li>○ Food and nutrients</li> <li>○ Digestive system</li> <li>○ Respiratory system</li> <li>○ Circulatory system</li> <li>○ Blood composition</li> <li>○ Blood types and transfusions</li> <li>○ Cardiovascular system</li> <li>○ Blood vessels</li> <li>○ Structure and function of the heart</li> </ul>	<ul style="list-style-type: none"> <li>○ Lymphatic system</li> <li>○ Urinary system</li> <li>○ Nervous system</li> <li>○ Neurons</li> <li>○ Central nervous system</li> <li>○ The brain</li> <li>○ Sensory organs</li> <li>○ Eye, ear, skin, nose and tongue</li> <li>○ Musculo-skeletal system</li> <li>○ Bones</li> <li>○ Joints</li> <li>○ Muscles</li> <li>○ Agriculture and breeding</li> <li>○ Genetic transformation</li> <li>○ Medical applications</li> <li>○ Vaccinations, treatments for infertility, tissue and organ engineering</li> </ul>
	<p><b><u>The Technological World</u></b></p> <ul style="list-style-type: none"> <li>○ Communicating with symbols</li> <li>○ Lines and geometry in technical drawings</li> <li>○ Projections</li> <li>○ Scale, dimensions and cross-sections</li> <li>○ Mechanical constraints and properties</li> <li>○ Materials</li> <li>○ Basic mechanical functions</li> <li>○ Motions transformation and transmission</li> <li>○ Biotechnology</li> </ul>	

**END OF YEAR** EXAMS ARE GIVEN IN BOTH COMPETENCIES *DURING THE EXAM WEEK*. EXAM MARKS WILL BE USED WHEN CALCULATING THE END OF YEAR MARK FOR EACH STUDENT. THEY ARE NOT PART OF TERM 3.

<b>Communication to Students and Parents</b>	Communication will take place formally with parents using the three report cards and parent-teacher interviews.  The following may also be used: student agenda, phone calls, emails.
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