



Marymount International Academy

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

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TERM 1 (20%):

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

TERM 2 (20%)

Competencies Targeted	<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>	
Evaluation Methods	• Same as Term1	Same as term 1
Topics Covered	<u>Earth and Space</u> <ul style="list-style-type: none">○ Stratigraphic layers○ Geological time scale○ Major stages in the history of life on Earth○ Extinctions	<ul style="list-style-type: none">○ Fossils○ Astronomical Units○ Light year○ Location of the Earth in the universe○ Conditions conducive to the development of life
	<u>The Living World</u> <ul style="list-style-type: none">○ The perpetuation of life○ The structure and function of the human cell○ DNA and genetic diversity○ Cell division○ Cell specialization○ Tissues, organs and systems	○

TERM 3 (60%)

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

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.

Communication to Students and Parents	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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