

Science Year 7

<u>ADVENT 1</u> Health and safety Cell Biology Forces Particle Model	<u>ADVENT 2</u> Cell Biology Chemical Reactions Energy	REVIEW OF LEARNING DIRT & Summative	<u>LENT 1</u> Homeostasis Pure and Impure Substances Forces	<u>LENT 2</u> Ecology Chemical Reactions Forces	REVIEW OF LEARNING DIRT & Summative	<u>PENTECOST 1</u> Genetics and Evolution Space Physics Forces	PENTECOST 2 Biomechanics Analysis & Evaluation	REVIEW OF LEARNING DIRT & Summative
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Examples of Catholic Social Teaching

<p><u>Biology</u></p> <p>Human Dignity - Cells: Life begins from a fertilised egg (life is sacred / sanctity of life).</p> <p>Dignity of Work and Participation – Reproduction: Fertility treatments.</p> <p>Human Dignity – Reproduction: Right to life.</p> <p>Common Good – Reproduction: Increasing population issues.</p> <p><u>Genetics and Evolution</u></p> <p>Human Dignity: Learning about how genetic variation arises through sexual reproduction aligns with the principle of solidarity and respect for all members of the human family.</p> <p><u>Environment</u></p> <p>Creation and the environment: Crop rotation, creation of wildflower meadows. Common good: improving farming practices and bee protection.</p> <p>Ecosystems: reducing waste and minimising our ecological footprint; principle of stewardship of creation.</p>	<p><u>Chemistry</u></p> <p><u>Energy</u></p> <p>Option for the poor: Cheaper methods of energy production.</p> <p>Solidarity: Sustainable resources for the future.</p> <p>Creation and the environment: Reducing carbon footprint.</p> <p><u>Acids and Alkalies</u></p> <p>Acids and Bases: responsible use of chemicals and pollution prevention strategies, caring for the Earth's resources.</p> <p>Peace: acid attacks damage people and community.</p> <p>Creation and the Environment: incorrect pH reduces biodiversity.</p> <p><u>Chemical Reactions</u></p> <p>Human Dignity: Learning about the role of chemistry in developing new medicines and treatments; principles of solidarity with those suffering from illness.</p> <p>Creation and the Environment: Fuels and Combustion: Learning about the impact of combustion on air quality and climate change, responsible resource management to protect the environment.</p>	<p><u>Physics</u></p> <p><u>Heating and Cooling</u></p> <p>Options for the poor – unfair tariffs. Dignity of work and participation – reinvestment in clean energy.</p>
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Careers

<p><u>Biology</u></p> <p>Health & Safety: Health & Safety Advisor / Inspector</p> <p>Cells: Microbiologist, Toxicologist.</p> <p>Reproduction: Midwife, Zookeeper, Zoologist, Vet</p> <p>Genetics and Evolution: Geneticist, Genetic Counsellor, Farmer, Zoologist, Marine Biologist.</p> <p>Environment: Botanist, Gardener, Farmer, Chemical Oceanographer.</p>	<p><u>Chemistry</u></p> <p>Energy: Oil Rig Engineer, Environmental Scientist, Chemical Analyst, Climate Change Scientist, Renewable Energy Researcher.</p> <p>Acids and Alkalies: Forensic Scientist, Laboratory Technician.</p> <p>Chemical Reactions: Metallurgist, Chemical Engineer.</p>	<p><u>Physics</u></p> <p>Forces: Racing engineer, Astronaut, Architect, Aerospace Engineer, Marine Engineer, Sports Equipment Designer.</p> <p>Universe: Aerospace Engineer, Astronaut, Astronomer, Astrobiologist, Cosmologist, Satellite Engineer.</p>
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