Year 7 - Stem 2023

<table>
<tr><th colspan="3">TERM 1</th></tr>
<tr><td rowspan="3">TIMING
Weeks 1 – 4</td><td colspan="2">Design Thinking Activity
Students complete a written activity based on understanding and applying design thinking. They will unpack key terms that apply to later projects.</td></tr>
<tr><td>UNIT OVERVIEW</td><td>ASSESSMENT</td></tr>
<tr><td>• Apply the processes of working technologically, working mathematically and working scientifically skills and strategies that improve literacy and numeracy.
• Embed opportunities for the development of 21st Century skills and general capabilities such as communication, collaboration, problem-solving, self-evaluation, ICT, critical and creative thinking, personal and social capability.</td><td>Task Number: 1
Nature of Task: Written Activity
Percentage: 20%
Week: Week 4
Reported: Semester 1</td></tr>
<tr><td rowspan="3">TIMING
Weeks 5 – 11</td><td colspan="2">Collaborative Practical and Portfolio
Students undertake a collaborative practical project on bridge design with the completion of an independent portfolio.</td></tr>
<tr><td>UNIT OVERVIEW</td><td>ASSESSMENT</td></tr>
<tr><td>• Apply the processes of working technologically, working mathematically, and working scientifically skills and strategies that improve literacy and numeracy.
• Embed opportunities for the development of 21st Century skills and general capabilities such as communication, collaboration, problem-solving, self-evaluation, ICT, critical and creative thinking, personal and social capability.
• Ensure and monitor the presence of academic rigour and ongoing assessment.
• STEM programs are planned, developed and implemented by an Integrated STEM team with succession planning considered to ensure sustainability.
• STEM programs are an alternative method of delivery of part of the curriculum, not compromising, or adding to, existing curriculum.</td><td></td></tr>
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<table>
<tr><th colspan="3">TERM 2</th></tr>
<tr><td rowspan="3">TIMING
Weeks 1 - 2</td><td colspan="2">Collaborative Practical Portfolio
Students undertake a collaborative practical project on bridge design with the completion of an independent portfolio.</td></tr>
<tr><td>UNIT OVERVIEW</td><td>ASSESSMENT</td></tr>
<tr><td>• Apply the processes of working technologically, working mathematically and working scientifically skills and strategies that improve literacy and numeracy.
• Embed opportunities for the development of 21st Century skills and general capabilities such as communication, collaboration, problem-solving, self-evaluation, ICT, critical and creative thinking, personal and social capability.</td><td>Task Number: 2
Nature of Task: Portfolio and Practical
Percentage: 80%
Week: Week 2
Reported: Semester 1</td></tr>
<tr><td rowspan="3">TIMING
Weeks 3 - 10</td><td colspan="2">Team Challenge – Practical and Research Activity
Students undertake a collaborative practical challenge with the completion of a research activity.</td></tr>
<tr><td>UNIT OVERVIEW</td><td>ASSESSMENT</td></tr>
<tr><td>• Apply the processes of working technologically, working mathematically, and working scientifically skills and strategies that improve literacy and numeracy.
• Embed opportunities for the development of 21st Century skills and general capabilities such as communication, collaboration, problem-solving, self-evaluation, ICT, critical and creative thinking, personal and social capability.
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• STEM programs are planned, developed and implemented by an Integrated STEM team with succession planning considered to ensure sustainability.
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<table>
<tr><th colspan="3">TERM 3</th></tr>
<tr><td rowspan="3">TIMING
Weeks 1 – 10</td><td colspan="2">Mission to Mars Challenge

Students complete an independent challenge where they research, develop and build a cart for a zipline. Students will document their progress in an independent research portfolio.</td></tr>
<tr><td>UNIT OVERVIEW</td><td>ASSESSMENT</td></tr>
<tr><td>Apply the processes of working technologically, working mathematically, and working scientifically skills and strategies that improve literacy and numeracy.
Embed opportunities for the development of 21st Century skills and general capabilities such as communication, collaboration, problem-solving, self-evaluation, ICT, critical and creative thinking, personal and social capability.
Ensure and monitor the presence of academic rigour and ongoing assessment.
STEM programs are planned, developed and implemented by an Integrated STEM team with succession planning considered to ensure sustainability.
STEM programs are an alternative method of delivery of part of the curriculum, not compromising, or adding to, existing curriculum.</td><td>Task Number: 3
Nature of Task:
Portfolio and Practical
Percentage: 100%
Week: Week 8
Reported: Semester 2</td></tr>
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<table>
<tr><th colspan="3">TERM 4</th></tr>
<tr><td rowspan="3">TIMING
Weeks 1 – 10</td><td colspan="2">Independent and Team Challenges (Mini Olympics)

Students complete a series of independent and team challenges on Mini Olympics. They will research, develop and build solutions to a variety of problems, utilising the design thinking process.</td></tr>
<tr><td>UNIT OVERVIEW</td><td>ASSESSMENT</td></tr>
<tr><td>Apply the processes of working technologically, working mathematically and working scientifically skills and strategies that improve literacy and numeracy.
Embed opportunities for the development of 21st Century skills and general capabilities such as communication, collaboration, problem-solving, self-evaluation, ICT, critical and creative thinking, personal and social capability.
Ensure and monitor the presence of academic rigour and ongoing assessment.
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