

# Course Content: It's a Mars Life

|                      | Day 1   | Day 2   | Day 3  | Day 4   | Day 5   |
|----------------------|---|---|--|---|---|
| 1 <sup>st</sup> hour | <ul style="list-style-type: none"> <li>NASA Expert video intro</li> <li>Intro to Mars environment</li> <li>Human needs</li> </ul> | <p>Farming on Mars</p> <ul style="list-style-type: none"> <li>Symbiotic relationship between plants and humans</li> </ul>             | <p>Water on Mars</p> <ul style="list-style-type: none"> <li>Water cycle, filtration, waste management</li> </ul>               | <p>Solar Energy</p> <ul style="list-style-type: none"> <li>Mars climate, radiation hazards, solar power</li> </ul>          | <ul style="list-style-type: none"> <li>Student inquiry: Design a Mars Colony</li> </ul>   |
| 2 <sup>nd</sup> hour | <ul style="list-style-type: none"> <li>Activity: How is Mars different to Earth</li> <li>Inquiry: Design a Mars colony</li> </ul> | <ul style="list-style-type: none"> <li>EDP: Design and build a plant growth chamber</li> <li>Inquiry: Design a Mars colony</li> </ul> | <ul style="list-style-type: none"> <li>EDP: Create a water filtration system</li> <li>Inquiry: Design a Mars colony</li> </ul> | <ul style="list-style-type: none"> <li>EDP: Design and build a solar oven</li> <li>Inquiry: Design a Mars colony</li> </ul> | <ul style="list-style-type: none"> <li>Mars colony challenge presentations</li> <li>Debate: Should humans colonize Mars?</li> </ul> |
| Last 45 min          | <ul style="list-style-type: none"> <li>Reflect: What does a Martian need to survive?</li> <li>Growth Mindset</li> </ul>           | <ul style="list-style-type: none"> <li>Reflect: Growth Mindset</li> </ul>   | <ul style="list-style-type: none"> <li>Reflect: Growth Mindset</li> </ul>  | <ul style="list-style-type: none"> <li>Reflect: Growth Mindset</li> </ul>   | <ul style="list-style-type: none"> <li>Wrap up</li> </ul>   |

