

STEM Curriculum Map

	Rotation 1	Rotation 2
<p>Year 7</p> <p>Students will take part in a 6-week project focusing on applying their STEM skills to real world scenarios.</p> <p>Assessments are completed at the end of each rotation.</p>	<p>Project one focuses on a “Mission to Mars” where students learn how to research using the internet and use their problem-solving skills to tackle a wide range of various issues they may face when trying to settle on Mars.</p> <p>Students will have to think about:</p> <ul style="list-style-type: none"> • Who they will take with them. (Links to Careers) • What they will take with them. • How they will survive. • Where they will live. • Why we need to leave earth. <p>Students will be assessed by presenting their research and ideas to the class at the end of the rotation. Students will use this opportunity to develop their presentation and public speaking skills which will be invaluable later in life and within their academic careers.</p>	<p>Project two focuses on “Zero Carbon Coventry” where students further develop the skills they have learnt during the first rotation and apply them to a new situation. Combating climate change is becoming a more pressing matter by the day and this project will introduce them to why reducing their carbon footprint is important and what a city like Coventry can do to help.</p> <p>Students will have to think about:</p> <ul style="list-style-type: none"> • Who they will need to make changes to Coventry. (Links to Careers) • What changes they can make to energy. • What changes they can make to housing. • Why we need to reduce our carbon footprint. • What changes can be made to public transport. <p>Students will be assessed by presenting their research and ideas to the class at the end of the rotation. Students will use this opportunity to develop their presentation and public speaking skills which will be invaluable later in life and within their academic careers.</p>
<p>Year 8</p> <p>Students will take part in a 6-week project focusing on applying their STEM skills to real world scenarios.</p> <p>Assessments are completed at the end of each rotation.</p>	<p>Project one will focus on “Developing Countries” where students will use their research skills to discover what is meant by the term developing countries, difficulties faced by developing countries and what we can do to support developing countries. Students will then use this information to create a new product to help support developing countries overcome one of the difficulties they face.</p> <p>Students will work in teams during this project helping them to further develop their teamwork, communication, and leadership skills.</p> <p>Students will be assessed at the end of the rotation in two ways:</p> <ul style="list-style-type: none"> • A presentation of their product. • A written assessment on developing countries. 	

STEM Curriculum Map

YEARS 7 and 8 helpful links:

STEM Careers:

<https://www.stem.org.uk/stem-careers-fairs>

<https://www.unifrog.org/know-how/getting-in-for-stem-in-the-uk>

Mars:

[Why Should We Go to Mars? | MARS](#)

[Building Shelter | How to Survive on Mars](#)

[Generating Power on Mars | MARS: How to Get to Mars](#)

[Growing Food on Mars | MARS: How to Survive on Mars](#)

[Extracting Water on Mars | MARS: How to Survive on Mars](#)

[Creating Air on Mars | MARS: How to Survive on Mars](#)

Zero Carbon Coventry:

[The Best Ways to Reduce Your Carbon Footprint | Hot Mess !\[\]\(e3275251d0893157c3584e20c81dc3ba_img.jpg\)](#)

[Creating the World's First Carbon Neutral Capital](#)

Developing Countries:

[What is a “Developed” Country? Crash Course Geography #40](#)