



APPRENTICESHIPS

Activity	Description	Group Size	Time Taken	Gatsby Benchmark
Pipework Activity	Team work and communication task to challenge coordination, teamwork and practical skills Physical and requires space <i>LO: To establish team roles.</i> <i>To develop creative planning and practical with ideas and concepts.</i> <i>To develop communication and listening skills</i>	4-6 per turn <i>Can be used in whole class settings</i>	15 minutes	5
Cross the river	Team building using teamwork, coordination and physical ability to cross the team over to other post listening to strict instructions <i>LO: To work as a team and establish team roles.</i> <i>To develop creative planning and practical with ideas and concepts.</i> <i>To develop communication and listening skills</i>	4-10 per group <i>Can be used in whole class settings</i>	15 minutes	5
Candoo STEM Careers game	Career planning activity using card game concept to establish STEM careers and pathways. <i>LO: To use creative ways to understand STEM Careers and the pathways into the professions</i>	4-10 per game	30-40 minutes	2, 5
Virtual Reality Welding	VR game to introduce students into the world of welding. Using technology to bring real life experience and techniques to the students. <i>LO: To experience welding careers and sectors</i> <i>To challenge new careers</i> <i>To bring work/career experience to the students.</i>	Individual activity <i>Can be used in whole class settings</i>	2 minutes per turn	2, 5, 6
Build the Tallest Tower	Using household items, the students are challenged to use their knowledge of foundation and structures to build a solid tower which will compete within a competition with other teams. <i>LO: To understand frame and structures</i> <i>To work as a team with set instructions and achieving outcome within time frame.</i>	4-5 per group <i>Can be used in whole class settings</i>	15 - 20 minutes	5



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Filter activity	<p>To test several materials to determine which is the most effective filter. Plan and carry out a fair test to determine how effective the different materials are at removing mud from a mixture water considering both the time taken to filter the liquid.</p> <p><i>LO: To use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.</i></p> <p><i>Give reasons, based on evidence from comparative and fair tests for the particular uses of everyday materials.</i></p> <p><i>To report and present findings from enquiries including conclusions, causal relationships and explanation of and degree of trust in results in oral and written forms.</i></p>	<p>4-5 per group <i>Can by used in whole class settings</i></p>	<p>15 - 20 minutes</p>	<p>4, 5</p>
Pipe joining activity	<p>Investigating sealants to choose the most suitable for joining a pipeline that will carry water. Investigate the effectiveness of a variety of sealants to join pipes.</p> <p><i>LO: Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.</i></p> <p><i>Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.</i></p>	<p>4-5 per group <i>Can by used in whole class settings</i></p>	<p>15 - 20 minutes</p>	<p>4, 5</p>
Game of Engineering Life	<p>Using digital game to plan career pathways within STEM and engineering.</p> <p><i>LO: To either further own plan or investigate pathways within careers.</i></p> <p><i>To identify route within engineering and qualification required to access roles.</i></p>	<p>Individual activity <i>Can by used in whole class settings</i></p>	<p>30-40 minutes</p>	<p>2, 3, 8</p>
Health and Safety lesson	<p>Presentation and classroom activity to explore consents of health and safety in work and engineering.</p> <p><i>LO: To understand health and safety and its importance</i></p> <p><i>To be able to recognise hazards and H&S standards.</i></p>	<p>Flexible working</p>	<p>1 hour</p>	<p>2, 5</p>
What is an apprenticeship?	<p>Presentation and research activity to explore apprenticeships and routes within careers.</p> <p><i>LO: To explore career pathways and apprenticeships</i></p>	<p>Flexible working</p>	<p>1 hour</p>	<p>5</p>
Strongest bridge activity	<p>Presentation and activity. To build the strongest bridge from the selected material.</p> <p><i>LO: To understand and practice structure importance and planning.</i></p>	<p>Flexible group size <i>Can by used in whole class settings</i></p>	<p>1 hour</p>	<p>5</p>



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Interview skills	<p>Presentation and activity to introduce students to the world of interviews and skills needed.</p> <p><i>LO: Identify skills and knowledge needed for interviews To practice peer interviews and prepare own answers to questions.</i></p>	Individual and peer exercises.	1 hour	3, 5, 8
Learn the trades	<p>Vary of presentations/talk and lessons on understanding different engineering trades and careers.</p> <p><i>LO: To understand and define difference in engineering trades. To explore careers within different trades and areas within engineering.</i></p>	Flexible working	1 hour	2, 5, 6
Decarbonisation Lesson	<p>Introduction to decarbonisation and the developments being introduced within the Humber engineering sector.</p> <p><i>LO: To introduce decarbonisation/ climate change and the project taking place in the Humber. To identify change and opportunities within engineering through decarbonisation.</i></p>	Flexible learning	1 hour	4, 5