

## Year 9 Design & Technology - Dyson Iterative Design Learning Programme 5

<p>The LORIC skill focus for his LP is: COMMUNICATION. The Moral Virtues focus for this LP are: COURAGE and HUMILITY.</p> <p>Courage - Acting with bravery and overcoming fears. Humility - Having a modest view of oneself.</p> <p><b>What will I be learning about in this Learning Programme?</b> To know the characteristics of high and low income countries. To know about the development of humanitarian products. To know the difference between renewable and non-renewable energy sources. To apply the iterative design process to develop a humanitarian product; to understand the wider issues affecting design &amp; technology.</p> <p><b>Where have I seen this learning before?</b> In Y7 and 8 you will have modelled and tested ideas from card and will have discussed the environmental impact of using materials to make products.</p> <p><b>What could I use it for?</b> You will apply the iterative design process extensively when designing and modelling your ideas for your GCSE Design and Technology non-examined assessment. You will also make links with topics studied in Geography.</p>		<p><b>Literacy:</b></p> <ul style="list-style-type: none"> <li>• Capital letters must be used at the start of sentences and for the first letter of proper nouns</li> <li>• Full stops must be used at the end of a sentence</li> <li>• Question marks must be used at the end of a question</li> <li>• Apostrophes should only be used for possession or omission</li> <li>• Days of the week and months must be spelled correctly</li> <li>• Key words must be spelled correctly</li> </ul>
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<b>In LPS.1, I will know:</b>	<b>11/05/26 - (WK 1)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
the difference between 'needs and wants'; the general characteristics of high and low income countries.		Humanitarian	Research the Dyson company.

<b>In LPS.2, I will know:</b>	<b>18/05/26 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
how the inventor Trevor Bayliss developed the idea of a wind-up radio; how to analyse the features and functions of existing humanitarian products.		Product analysis	Interpreting data on a chart.

<b>LPS RLW, I will:</b>	<b>01/06/26 - (WK 1)</b>		
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.		Revision	Use revision techniques to prepare for the summative assessment.

<b>In LPS.3, I will know:</b>	<b>08/05/26 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
the impact of different energy sources on the environment and society; how to explore the Dyson humanitarian context using mind mapping.		Renewable	Wider issues in design & manufacture.
Extended Task.			

<b>In LPS.4, I will know:</b>	<b>15/06/26 - (WK 1)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
how to use design strategies to create original ideas using freehand sketches, labelling and annotation; how to use the SCAMPER strategy to improve and develop one design idea.		Design strategy	The sources of energy.

<b>In LPS.5, I will know:</b>	<b>22/06/26 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
how the designers at Dyson produce prototypes through the iterative design process; how to use a craft knife and hot wire sculptor to cut card and shape foam into a non-functioning prototype.		Iterative design	Research a sustainable product.

<b>In LPS.6, I will know:</b>	<b>29/06/26 - (WK 1)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
how to use a hot glue gun safely to assemble my cardboard and foam parts into a non-functioning prototype.		Block model	The iterative design process.
Extended Task.			

<b>In LPS.7, I will know:</b>	<b>06/07/26 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
how to test the ergonomics of my prototypes and gain feedback to suggest next improvements; how to continue to apply the iterative design process to further develop and finalise my prototype.		Ergonomics	Modelling materials.

<b>Resources to support learning:</b>
The following websites contain extensive revision material and information to increase design & technology subject knowledge: <a href="http://www.technologystudent.com">www.technologystudent.com</a> ; <a href="http://www.mr-dt.com">www.mr-dt.com</a> ; <a href="http://www.bbc.co.uk/bitesize">www.bbc.co.uk/bitesize</a> .

<b>FFET Award Challenge for this Learning Programme:</b>
Complete research on three different humanitarian products designed to improve the lives of people living in low income countries.

