

Year 9 Design & Technology - Dyson Iterative Design Learning Programme 2

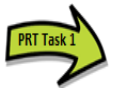
<p>The LORIC skill focus for his LP is: ORGANISATION</p> <p>The Moral Virtues focus for this LP are: COMPASSION and HONESTY</p> <p>Compassion - the quality of feeling pity and concern for the sufferings or misfortunes of others.</p> <p>Honesty - the quality of being truthful.</p> <p>What will I be learning about in this Learning Programme?</p> <p>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 & technology.</p> <p>Where have I seen this learning before?</p> <p>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>What could I use it for?</p> <p>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>Literacy:</p> <ul style="list-style-type: none"> • Capital letters must be used at the start of sentences and for the first letter of proper nouns • Full stops must be used at the end of a sentence • Question marks must be used at the end of a question • Apostrophes should only be used for possession or omission • Days of the week and months must be spelled correctly • Key words must be spelled correctly
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In LP2.1, I will know:	21/10/24 - (WK 2)	Key Vocabulary	Homework
the difference between 'needs and wants'; the general characteristics of high and low income countries.		Humanitarian	Research the Dyson company.

In LP2.2, I will know:	04/11/24 - (WK 1)	Key Vocabulary	Homework
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.

LP2 RLW, I will:	11/11/24 - (WK 2)		
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.

In LP2.3, I will know:	18/11/24 - (WK 1)	Key Vocabulary	Homework
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.			



In LP2.4, I will know:	25/11/24 - (WK 2)	Key Vocabulary	Homework
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.

In LP2.5, I will know:	02/12/24 - (WK 1)	Key Vocabulary	Homework
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.

In LP2.6, I will know:	09/12/24 - (WK 2)	Key Vocabulary	Homework
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.			



In LP2.7, I will know:	16/12/24 - (WK 1)	Key Vocabulary	Homework
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.

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

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