

Year 7 Design Technology Overview

Travel around the world game

Pupils investigate and use the vacuum forming process to produce a game and packaging based on a specific country.

Keywords	Key skills	Equipment/ processes used/ materials
Vacuum forming. Draft angle. MDF (medium density fibreboard.) HIPS (High Impact Polystyrene) PVC (Poly Vinyl Chloride.) Specification Brand name Product name	Mould making. (timbers) Microsoft Word Laminating. Hand Tools skills. Packaging. (2D Design)	MDF Vinyl Laptops 2D design HIPS Vacuum former Bench hook/vice Hand drill Coping saws Dowel/sq.section Junior Hacksaw Belt sander

Biomimicry inspired torch keyring

Pupils will look into the advantages and disadvantages of plastic and produce a simple keyring.

Keywords	Key skills	Equipment/ processes used/ materials
Life cycle analysis. Biomimicry Inspiration LED Circuits	Laser cutter 2D design design User wants Research Simple Circuits Component names	2D design Laptops Polypropylene LED Cell battery CR3210

BLOCK BOTS

Pupils learn about timbers and their classifications and uses.

Keywords	Key skills	Equipment/ processes used/ materials
Soft wood (coniferous) Hard wood (deciduous) Tenon saw Timber Pine Pillar drill Countersunk Blind hole	Hand tool skills Measuring and accuracy Creativity in design and imagination Health and safety/ risk assessment	Timber- pine Tenon saw Try square Bench hook Pillar drill Paint/pens

