

Year 7

Block it

Pupils learn about the difference of timbers and the importance of sustainability to produce a small product.

Keywords	Key skills	Equipment/ processes used/ materials
Recycle Sustainability Inspiration Evaluation 6R's Life Cycle Assessment Hardwood Softwood Isometric	Sustainability Hand tools and finishes User wants Research Understanding the world around them	Safety glasses Key ring Moulding/ forming Finishing Pillar drill Tenon saw

Yinka Ilori: Light me up!

Pupils will learn about timbers and plastics and their classifications and uses. Looking at the work of others to inspire their design work and incorporate electronics into the mix!

Keywords	Key skills	Equipment/ processes used/ materials
Soft wood/Hard wood Timber Medium Density Fibreboard 2D design CAD/CAM Vacuum form Sublimation Print/heat press	Hand tool skills Measuring and accuracy Creativity in design and imagination Laser cutter 2D design Work of others: design Soldering	Template Coping saw Heat press Vacuum forming Soldering iron

CRUMBLE

Pupils explore the program crumble to design and work a small moving product in groups.

Keywords	Key skills	Equipment/ processes used/ materials
Circuits LED Motor Systems Input Output	Knowledge of programs/ systems	Laptops Crumble kits Coding/ programming

Drawing

Pupils learn about different technical drawings.

Keywords	Key skills	Equipment/ processes used/ materials
Isometric Rendering	Technical drawing skills	PPT Pencils Set squares Drawing boards Rulers