

Year 7 DT – Product design: Timber – Wooden Toy Project – 8 lessons



The Ramsey Academy,
Halstead

Design Brief

A major toy retailer has commissioned you to design and make a wooden toy. The colour choices to decorate the wood are red, blue, green, white, yellow and black. You can choose the colours and decorations for your product which you think would be most suitable and attractive for your customer (Target Market Group – the person who is going to use the product you have made).

Key knowledge

- Categories of timbers – hardwoods, softwoods and manmade boards
- Properties of timber and their uses
- Health & Safety in the workshop



Skills and National Curriculum Links

Use specialist tools, techniques, processes, equipment and machinery.

- Tenon saw
- Pillar drill
- Fret saw
- Coping saw
- Disc sander
- Wood Stain

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Assessment and homework

Students will be assessed in 4 areas: Design, Make, Evaluate and Knowledge. Homework is set once a fortnight and students will have 2 weeks to complete it.

Key vocabulary

Key vocabulary	Definition
Product	an object that is manufactured or refined for sale
Production	the action of making or manufacturing from components or raw materials
Quality	the standard of something as measured against other things of a similar kind; the degree of excellence of something
Wastage	the process of cutting away material with tools and equipment.
Sustainable	a method of harvesting or using a resource so that the resource is not depleted or permanently damaged
Softwood	the wood from a conifer tree
Hardwood	the wood from a broadleaved tree

Suggested reading: BBC Bitesize - GCSE Design and Technology – AQA [Natural and manufactured timbers - Material categories and properties - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize](#)

Differentiation

Students will be supplied with differentiated worksheets where appropriate. Students will have demonstrations for all practical tasks, with guidance sheets to refer to together with teacher and support staff assistance. Where necessary the project will be changed and adapted to student's individual needs. Higher ability students will be taught use of additional tools and equipment to create more complex finishing techniques.