

Core Content Overview:

This project is designed to give you some experience of **Graphics** and **Resistant Materials** (wood based) and builds upon your learning in year 7.

Key Skills:

Graphics. You will revisit sketching using isometric techniques and rendering and shading. New learning will be to draw in third angle projection and also to dimension your drawings correctly in producing a working drawing.

Resistant Materials (wood based). In this project you will be concentrating on using wood, learning to make a box using different jointing techniques. You will be expected to work independently in both designing and manufacturing your product. You will design and manufacture a wooden box to be made from a 500mm length of pine for the sides and MDF or plywood for the lid and base.

There is scope within this project for you to design and make an ideal product (subject to the availability of materials and the time available for making the box). There is also a 'standard' design which you can follow should this be necessary.

GRADE	DESCRIPTOR
Yr 8 Grade 7	<ul style="list-style-type: none"> • Your well drawn isometric design ideas are rendered well using appropriate techniques. • You produce an accurate orthographic final design with all aspects correct. • You use appropriate materials, components, tools, equipment and processes skilfully, correctly and safely • There are no obvious faults with the box – however on closer examination, the box may contain some minor errors and is of near merchantable quality • In the end of module exam a mark equal to, or in excess of 65% is attained.

Subject:

Resistant Materials

Year group: 8 (Industrial Technology)

GRADE	DESCRIPTOR
Yr 8 Grade 5	<ul style="list-style-type: none">• Your isometric sketches are neat and appropriately rendered.• You produce a mainly accurate orthographic final design, however some aspects are not correct, eg. extension lines; ruler not used throughout; correct procedure for writing dimensions not followed.• You use appropriate materials, components, tools, equipment and processes correctly and safely.• You produce an accurate box that has a well applied finish. All edges are generally smooth and your box is safe to handle and use• In the end of module exam a mark equal to, or in excess of 54% is attained.
Yr 8 Grade 3	<ul style="list-style-type: none">• Your isometric sketches may not be technically accurate, neat or appropriately rendered.• Your orthographic drawings are constructed with limited adherence to the guidelines given on page 7.• You mainly use appropriate materials, components, tools, equipment and processes correctly and safely.• You produce a box with a reasonable level of accuracy and finish.• In the end of module exam a mark equal to, or in excess of 38% is attained. <p><u>Note: Grades 1 and 2 would be where work is incomplete.</u></p>