

Wood Technology

Students engaging with learning
from home





Wood Technology Challenges

CHALLENGE 1



Click on the video links below and then carry out the following tasks

Create a cardboard model of a hurley, applying what you have learned about ash and the art of hurley making from the videos you have watched.

Include: Size and Shape and Grain direction

Links which might help in completing this challenge:

Watch the video: [From Ash to Clash The Art of Hurley Making](#)

Explore the characteristics of ash from [Woodland Trust website](#)

CHALLENGE 2



Click on the video link below and then carry out the task

Design a Health and Safety information poster for your classroom to teach first year students the importance of good safety habits.

Your information poster can be created through a wide variety of media.

Links which might help in completing this challenge:

Watch the video:

Think about the 5 key safe working habits: [Safe Working Habits](#)



Wood Technology Challenges

CHALLENGE 3



Wood in my home or garden

Wood is often used to make both household and garden furniture.

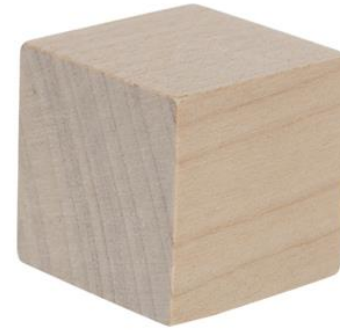
Select an item of wooden furniture in your home or garden and create a sketch of it.

Suggest one design improvement you would like to make to this item of furniture.

Links which might help in completing this challenge:

For some sketching help click [here](#)

CHALLENGE 4



Design Challenge

Design a stand for your phone or tablet from a **single** block of wood like the one shown above.

Sketch your design ideas and create a model from cardboard or other suitable materials of your design(s).

Links which might help in completing this challenge:

Watch this [video](#) to help you with your design ideas.

This [link](#) will help you to create a model of your design



Wood Technology Challenges

CHALLENGE 5



Wood is often used to make cooking utensils and other food preparation equipment

Select one such item of wooden equipment from your kitchen and create a sketch of it.

Suggest one design improvement you would like to make to this item.

Suggest a suitable type of wood to make this item from and give **two** reasons for your selection.

Links which might help in completing this challenge:

To find out more about wooden cooking utensils click [here](#)

CHALLENGE 6

**SHOW
YOUR
TALENT**

Design Challenge

Design an award to be presented to the winner of your school talent show.

Watch the video below which outlines a strategy called “Crazy 8’s”. Use this strategy to brainstorm ideas.

Sketch your final design ideas and create a cardboard model of your design(s).

Links which might help in completing this challenge:

Watch this [video](#) to help you with your design ideas.

This [link](#) will help you to create a model of your design



Wood Technology Challenges

CHALLENGE 7



Planting flowers and shrubs around our homes contributes to biodiversity and adds aesthetic value.

Design an artefact that can be freestanding or wall-mounted to be used for this purpose.

The artefact itself must be decorative and reflect a theme of your choice.

Links which might help in completing this challenge:

To find out about increasing biodiversity in your garden click [here](#)

CHALLENGE 8



Design Thinking Challenge

Identify a problem within your home and design a solution to solve it

A problem might be:

- *Where is the remote control?*
- *Where are the car keys?*
- *Things at the back of a press that are hard to reach...*

Sketch your final design ideas and/or create a cardboard model of your design(s).

Links which might help in completing this challenge:

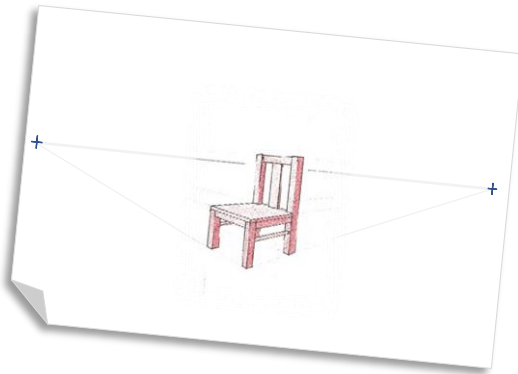
Watch this [video](#) to learn about the process of design.

This [link](#) will help you to create a model of your design



Wood Technology Challenges

CHALLENGE 9



Furniture in my home

Take a picture of a piece of furniture or any wooden object in your home.

Watch the videos below on perspective sketching.

Sketch/draw the piece of furniture in perspective.

Add colour, shading and rendering to your sketch.

Links which might help in completing this challenge:

Click [here](#) for video on how to sketch a chair in perspective.

Click [here](#) for video on how to sketch an office table in perspective.

CHALLENGE 10



Design Challenge

'Visitors to our garden'

Design an artefact to house or feed small birds in your garden, balcony or any outside space.

Click the links below for design ideas and sketching techniques.

Sketch your own unique design idea(s).

Create a model of your final design from cardboard or by upcycling other materials.

Links which might help in completing this challenge:

Click [here](#) for design ideas and inspiration.

Click this [video](#) on how to make a sketch of a birdhouse.

Click this [video](#) on how to make a cardboard model.



Wood Technology Challenges

CHALLENGE 11



Most trees are now in full leaf and summer is on the way. Use the camera on your mobile phone to take pictures of the leaves on the trees in your garden or your street.

Use the links below to help you to identify the trees.

Sketch out some of the leaves and note down something you have learned about the type of tree or timber it produces.

Links which might help in completing this challenge:

Check out this webpage from the Woodland Trust and the printable tree ID guides [Click here for link](#)

Try out this [tree identification app](#)

CHALLENGE 12



There are some basic tools and equipment every household should have for DIY jobs or maintenance emergencies.

Make a list of what you would include in a DIY/home emergency kit.

Design an artefact to store these items.

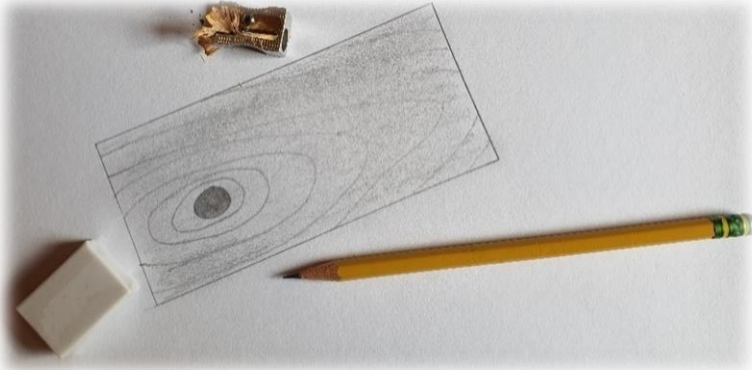
Links which might help in completing this challenge:

Check out these [websites](#) for some help on deciding what tools/equipment to include



Wood Technology Challenges

CHALLENGE 13



Sketching and Rendering techniques

Freehand sketching is a great way to communicate design ideas for our projects. Sketching wood grain detail and rendering really helps to bring our design ideas to life on paper.

Use the following video tutorials to improve your sketching and rendering techniques when presenting your project designs in Wood Technology.

Links which might help in completing this challenge:

Watch this tutorial to help you with [grain pattern](#).

This tutorial focuses on [rendering](#) your woodgrain sketches.

CHALLENGE 14



Design Challenge

When designing and working with wood we generally start with freehand sketches or drawings to develop our design ideas. Some of these ideas have complex shapes or curves which need to be transferred to the wood to enable us to make the items.

Design a wooden glider that will fly for more than ***five seconds***. Make a cardboard prototype of your design.

Use the rendering skills learned in the previous challenge to add woodgrain detail to your drawings and prototype.

Here is a link which might help in completing this challenge:

Watch this [video](#) to help you with transferring your designs from paper to your cardboard prototype.

Wood Technology teachers ...

These activities are designed and collated for teachers whose students may have to engage with learning from home. These activities only offer, as a suggestion, some possible tasks which could be completed by students.

Teachers' knowledge of their own students' context should inform their decision around which activities would best engage their students. If students are engaging with learning from home, assessment and reporting procedures may need to be reconfigured to reflect this circumstance.

