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LV50 Learning

All activities and resources have been designed to complement primary curriculum objectives.

Activity: One Understanding the Forepeak - Properties of Materials

KS1 Science

N.C. Objective

- distinguish between an object and the material from which it is made
- identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock
- describe the simple physical properties of a variety of everyday materials

Activity Two Understanding the Forepeak - Making a knee

KS1 DT

N.C. Objective

When designing and making, pupils should be taught to:

- select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]
- select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics



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The video we just watched did a great job of explaining how the original forepeak of the LV50 was built and, most importantly, what materials were used.

Look at the highlighted images below and write down what material each part of the forepeak is made from.

The Stem:



Material used:

List of types of materials:

wood, plastic, glass, metal, water, and rock



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Look at the highlighted images below and write down what material each part of the forepeak is made from.

Original knees joining hull and stem (oak):



Material used:

Additional support knees (iron):



Material used:

List of types of materials:

wood, plastic, glass, metal, water, and rock



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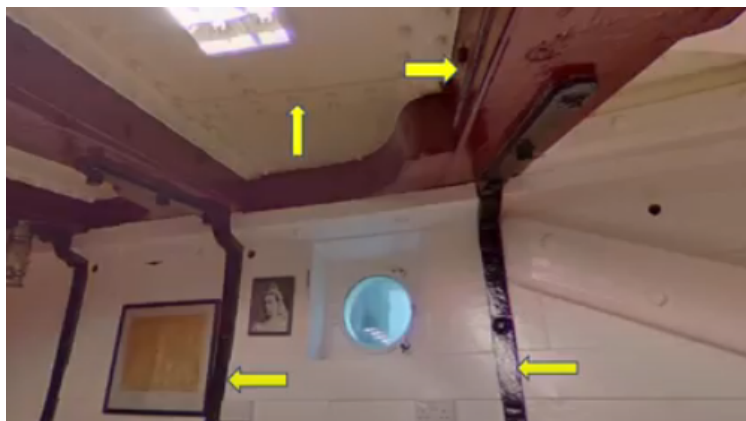
Look at the highlighted images below and write down what material each part of the forepeak is made from.

Beams and knees (oak):



Material used:

Knees joining the beams to hull (iron):



Material used:

List of types of materials:

wood, plastic, glass, metal, water, and rock



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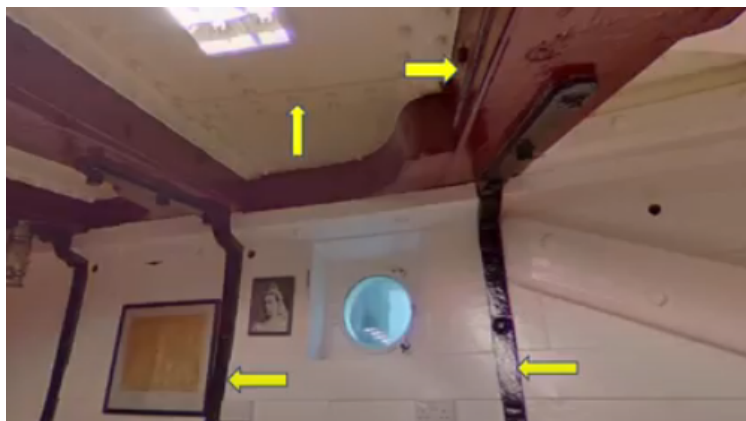
Look at the highlighted images below and write down what material each part of the forepeak is made from.

Keelson (oak):



Material used:

Double-skinned hull (teak):



Material used:

List of types of materials:

wood, plastic, glass, metal, water, and rock



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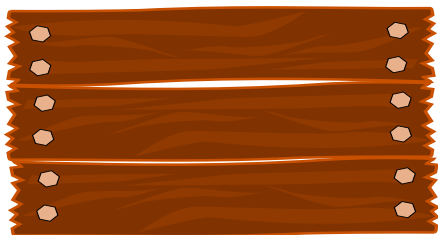
Discuss the following questions:

- Now that we have looked at a good number of examples of materials used to make the LV50, what have we learned?
- What materials were most commonly used? Why do you think that is?

Let's read about the properties of wood and metal and see if this helps us to understand why there were used to build the LV50:

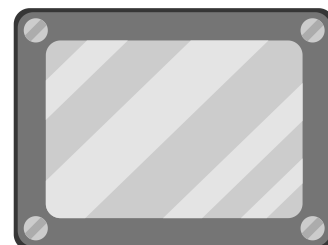
Wood:

Wood comes from trees. It is strong, flexible and long-lasting. It can be carved and shaped using sharp tools. It is an insulator of heat and electricity. It's used to make things such as furniture.



Metal:

Most metals are strong, hard and shiny materials that can be hammered into different shapes without breaking. They are good conductors of heat and electricity and some are magnetic. Their properties make them useful for objects such as cutlery, saucepans, cars and coins.



Find out more here:

<https://www.bbc.co.uk/bitesize/topics/z4339j6/articles/zx8hhv4>



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Extension: Based on what you have just read, write a brief explanation on why shipbuilders at the time used wood and metal to make the LV50 and other lightships.

Each sentence must include the conjunction *because*. Don't forget to include: capital letters, full stops and finger spaces

Wood:

Metal:



LV50 Learning

Activity Two

The forepeak was made up of lots of wooden pieces joined together with *knees*. *Knees* were give this name because they look a lot like our knee joints, especially when we are sitting down.



Using materials available to you in your classroom DT area, craft resources or specific materials given to you by your teacher, can you join two separate materials together using a *knee* that you have made yourself?

