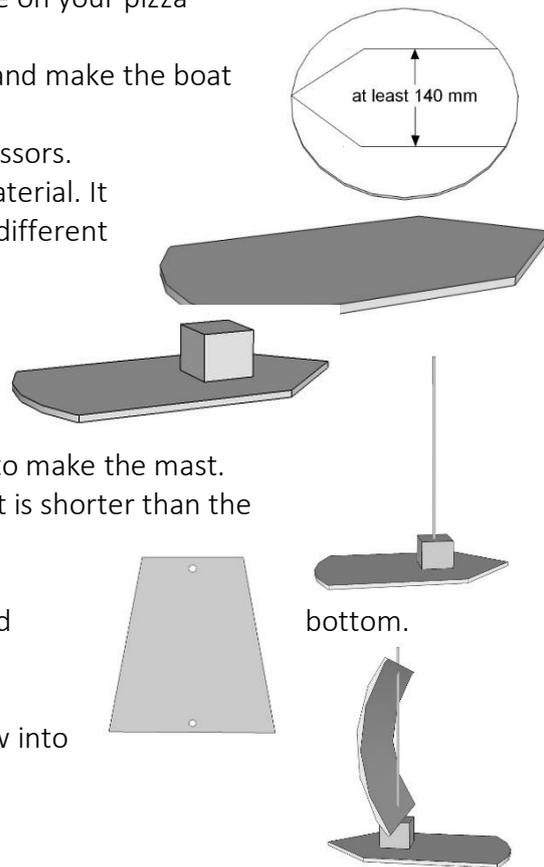


The Pirates

Lesson 1
Author visit and Boat making session
Outcomes
<p>Technologies Craft, Design, Engineering and Graphics</p> <p>I can design and construct models and explain my solutions. TCH 1-09a</p> <p>I can recognise a variety of materials and suggest an appropriate material for a specific use. TCH 1-10a</p>
Resources needed
<p>Mixed bag of materials which float and sink Skewers Glue/double sided tape Foam sheets/carry mat Large Container filled with water Foam squares/blocks Scissors</p>
Lesson
<p>Place all the materials on to the floor, classify the objects, the children need to decide which items will sink and which will float. Each child has an item and has to test whether it sinks or floats as predicted. Discuss the findings did everything do what was expected?</p> <p>    </p> <p>Making predictions: What do you think will happen to the sponge over time if you leave it in the water? Which items are made of: metal, wood, rock Can you predict if any of the following will float: a rock, a stick, a bicycle? Which of the materials might you use to make a model sailing boat, and why? Which of the materials would you not use to make a model sailing boat, and why not?</p>

Next split the children into groups, they can then make a boat using the materials:

1. Use a felt tip and ruler to draw this shape on your pizza base/ carry mat/ foam sheet.
2. Use the whole length of the pizza base, and make the boat quite wide.
3. Cut out the boat shape with the large scissors.
4. Cut a cube out of the foam packaging material. It should be about 30 mm across. Try out different tools for cutting it.
5. Ask an adult to stick your foam cube firmly onto your boat base like this using the glue gun.
6. Now press the pointed end of your skewer down firmly into the foam cube to make the mast.
7. Cut your sheet of coloured card so that it is shorter than the mast.
8. Make a sail shape.
9. Punch a hole in the middle of the top and
10. Decorate your sail with the felt tip pens.
11. Slide the sail onto the skewer.
12. Place the boat in the water tray and blow into the sail to try out your sailing boat.



Further development