# Making Model Sailing Boats

- Design, build and test your own model sailing boat.
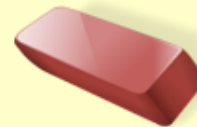
# Floating and sinking

Divide the items into two piles:

1)  objects you think will float

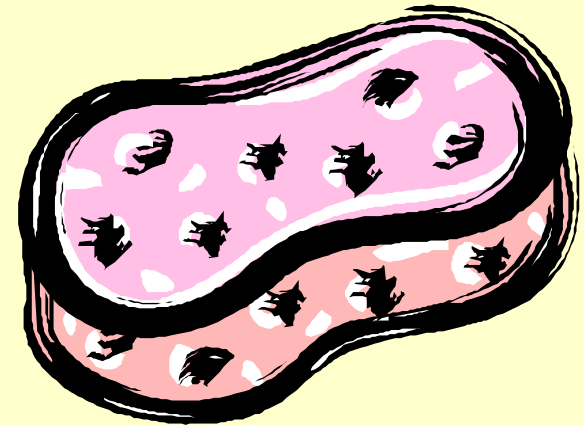2)  objects you think will sink

# Testing your ideas

- Take it in turns to place an item in the water.

- Did any items not behave as you predicted?

# 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

# Making predictions continued..

Can you predict if any of the following will float:

- a rock,

- a stick,

- A bicycle

# Choosing materials for specific uses

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?

# Building model sailing boats
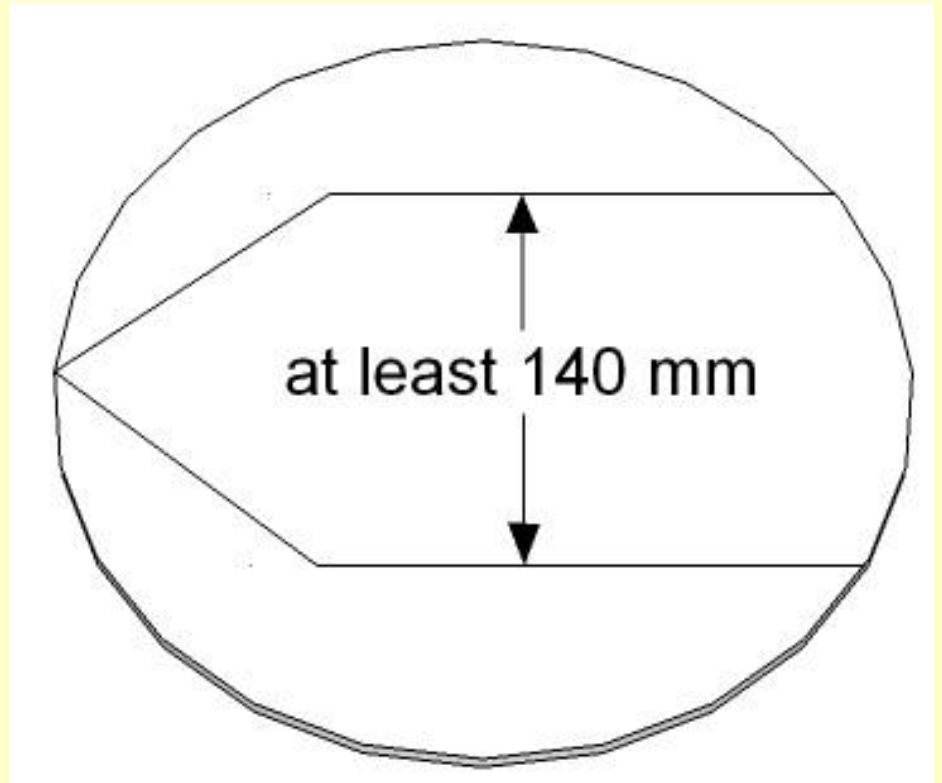
Look at the tools you have been given.

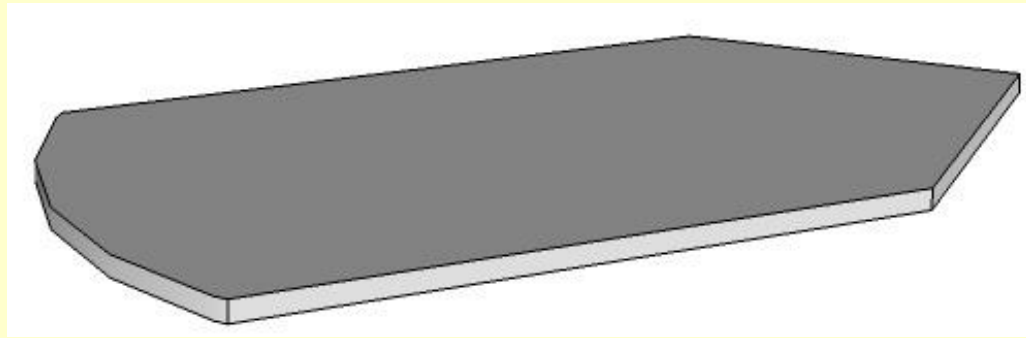What hazards must you be aware of?

# Drawing your boat base

- Use a felt tip and ruler to draw this shape on your pizza base.

- Use the whole length of the pizza base, and make the boat quite wide.
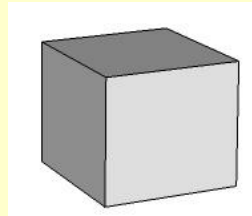


at least 140 mm

# Cutting out your boat base

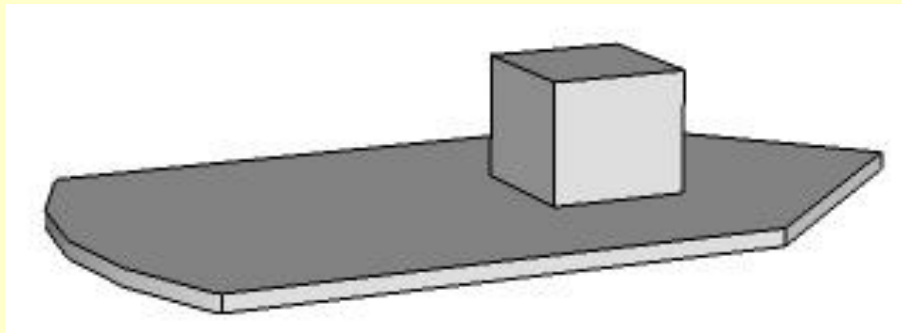- Cut out the boat shape with the large scissors.

- Cut a cube out of the foam packaging material. It should be about 30 mm across. Try out different tools for cutting it.
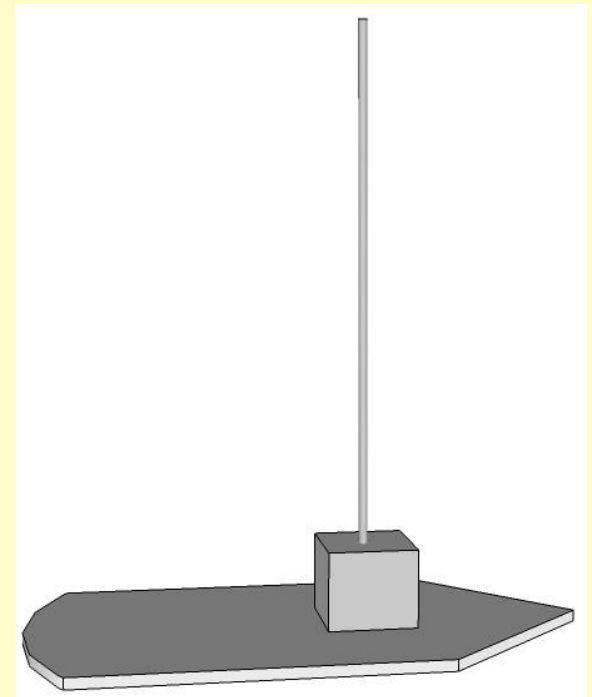
# Assembling your boat

- Ask an adult to stick your foam cube firmly onto your boat base like this using the glue gun.

- Now press the pointed end of your skewer down firmly into the foam cube to make the mast.
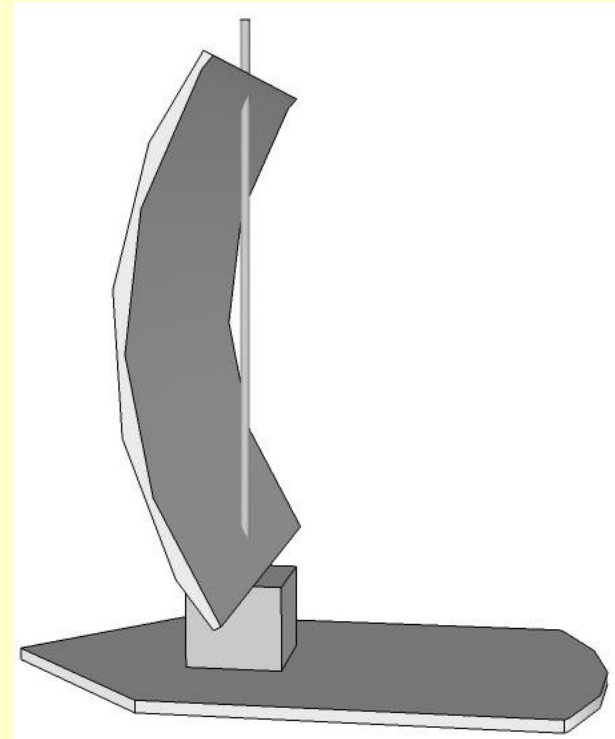
# Making the sail

- Cut your sheet of coloured card so that it is shorter than the mast.

- Make a sail shape.

- Punch a hole in the middle of the top and bottom.

- Decorate your sail with the felt tip pens.
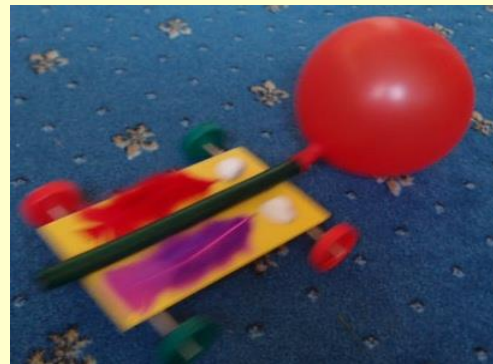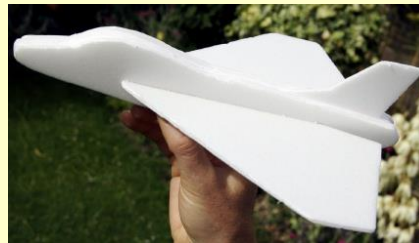
# Testing your boat

- Slide the sail onto the skewer.

- Place the boat in the water tray and blow into the sail to try out your sailing boat.

- You can add a sailor, a flag or any other decorations you like.

Other fun design and build projects to be found in the Technology for Fun books, available from www.technologyforfun.co.uk