

Building Boats

A task setting PowerPoint for thinking scientifically and carrying out an investigation.



Aim

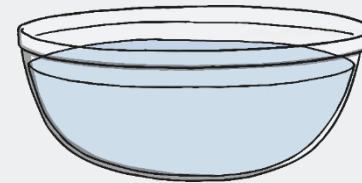
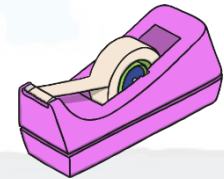
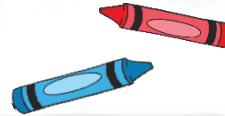
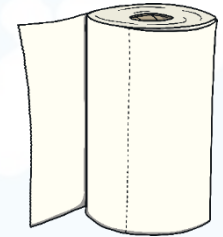
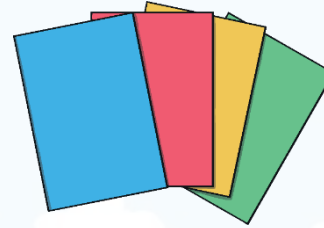
- To identify and compare the Suitability of everyday materials.

Success Criteria

- I have observed closely.
- I have identified different materials.
- I have recorded what I found out.
- I can talk about what I have found out.

You Will Need:

- paper
- a bowl of water for testing
- other materials
- coins or weights



Can You Name 10 Everyday Materials?

Think about the properties of these materials. Use the following words to describe them.

weak

soft

heavy

hard

light

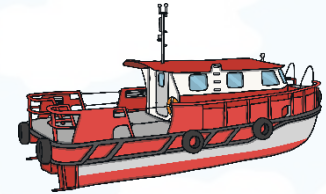
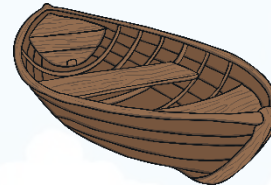
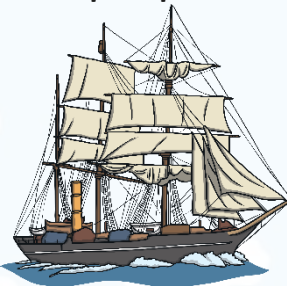
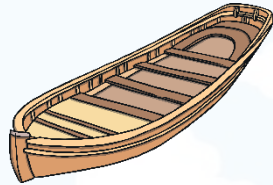
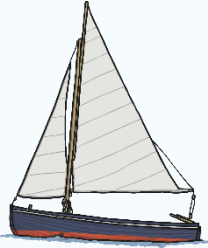
strong

stiff

flexible

Think about a Boat...

What are the properties of a boat?



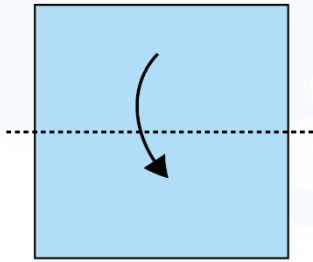
Which of the materials will make the best boat?

What will make a good boat material –
waterproof, foldable, light, colour?

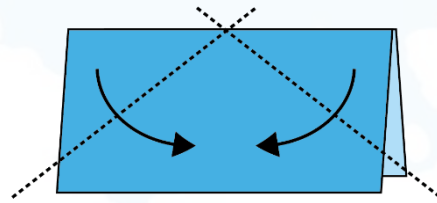
Choose your materials.

Why did you choose these to make your boat?

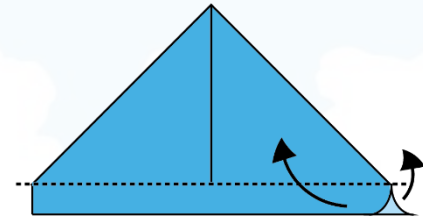
How to Make a Boat



1. Fold paper in half

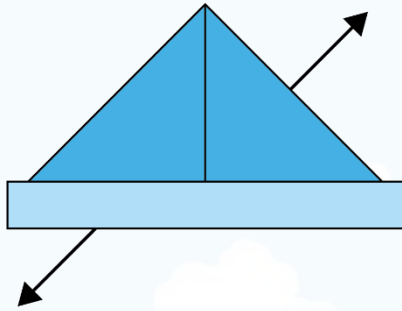


2. Fold corner in

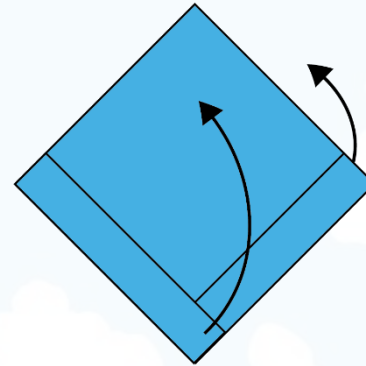


3. Fold along bottom
on both sides

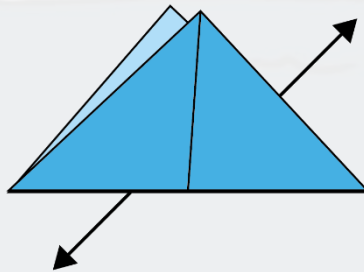
How to Make a Boat



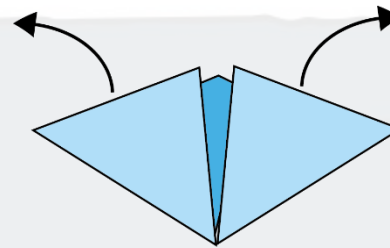
4. Pull the sides out and flatten



5. Fold bottom points up

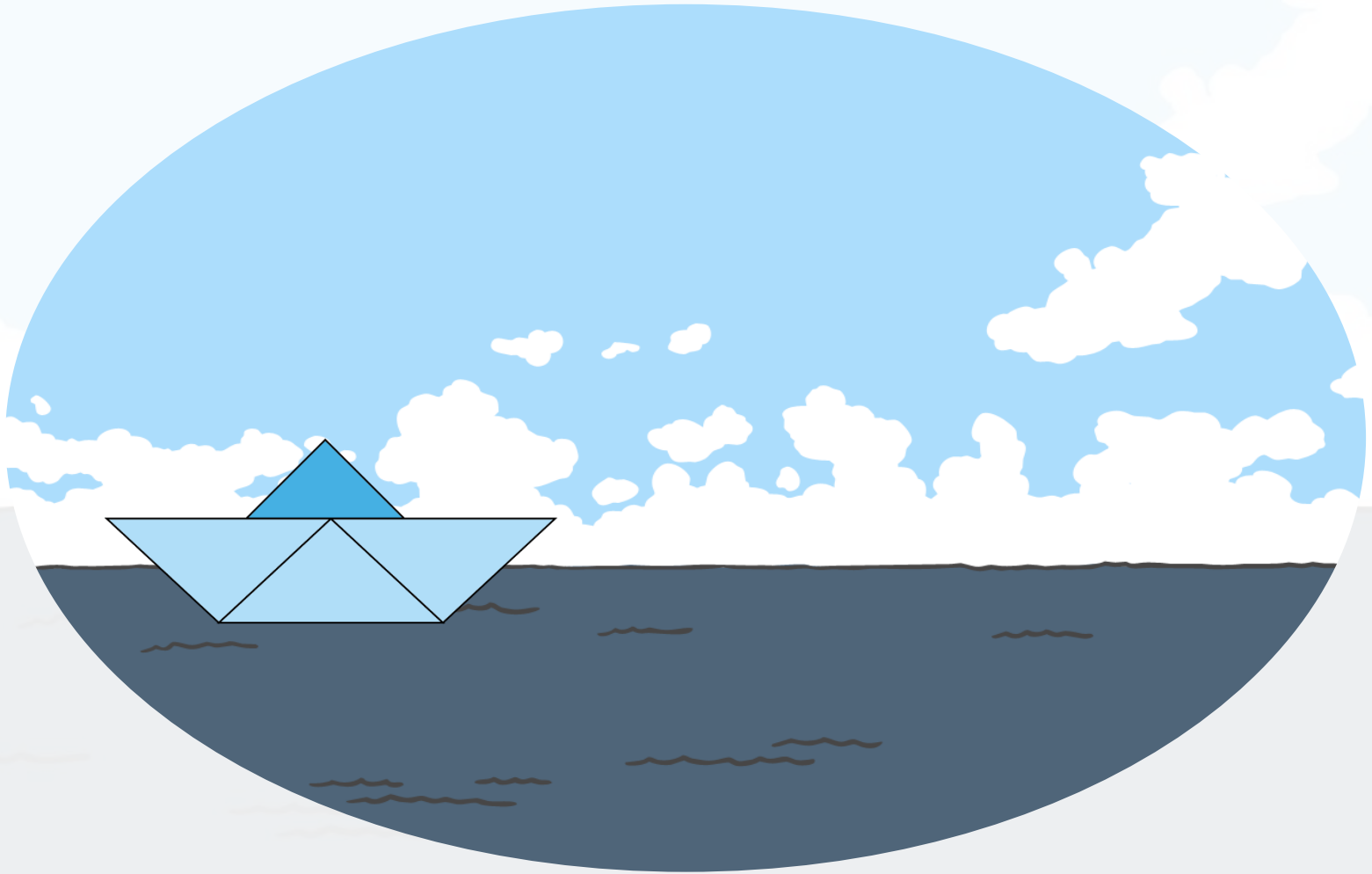


6. Pull the sides and flatten



8. Pull apart the sides and shape the boat

And You Have a Boat!



Now have a go at making a boat out of paper.

Put your boat onto the water and see how it floats.

Now make a different boat. It might be:

- bigger
- smaller
- made from a different material
- a different design

Plenary

What have we found out from this investigation?

What made them a success?

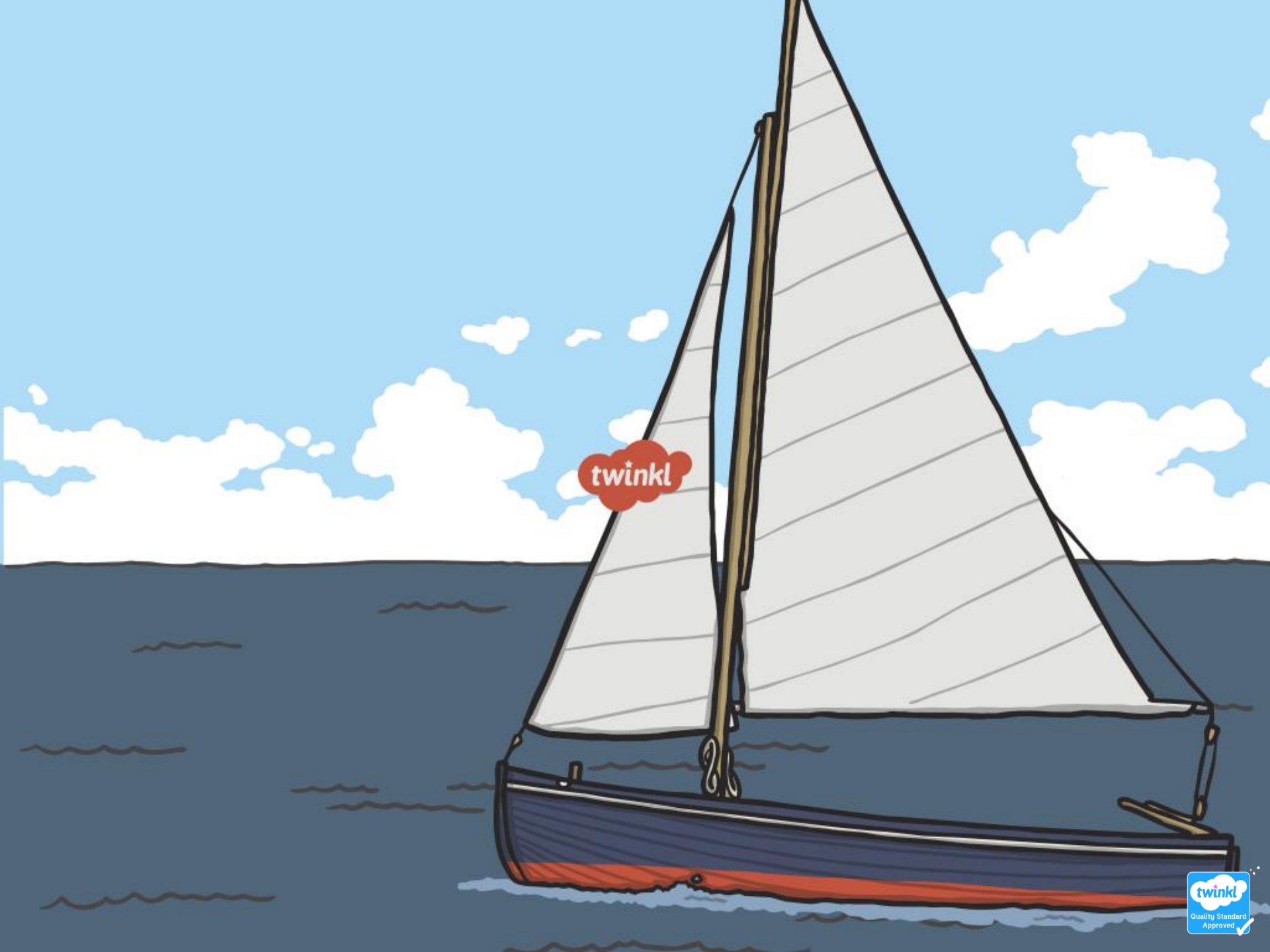
Did your boat get wet?

Did it float for the longest?

Did it stay the shape you made it?

What did you have to do?

What material would you choose to use next time?



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