

## SOAP BOAT

### You will need:

- Adult help
- A foam tray (like some take away boxes, meat packages, fruit etc.) or a piece of non-corrugated cardboard
- A tray, bowl, or aluminium tray full of water
- Liquid dish soap
- A toothpick or small brush

### Let's make it!

Cut the foam tray or cardboard into a boat shape as shown. The exact shape is not important but the trick is to make a triangle shape notch for our engine which is not too large and not too small!

Dip your toothpick or brush into the liquid soap and smudge the soap onto the sides of the notch at the back of the boat (see drawing).

Our boat is ready to go! Now...slowly and carefully place the boat onto the surface of the water.

Wow! It races across the water for several seconds!

You've just made a soap-powered boat!

To do it again you will need to rinse out and clean the tray to remove any soap.

### How?

When soap touches the water, it breaks down the surface tension of water. and if the surface tension is broken up, it creates enough of a force to push the lightweight boat across the surface.

