

## Teacher-led activity

## IN FOR A PENNY



### You will need:

- A penny
- Water



### What you do:

1. Put the penny on a table.
2. Dip your finger in the water and let the drops drip from your finger onto the penny.
3. Repeat. What happens and why?

### You should find:

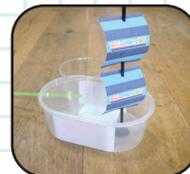
The water should form a small dome on top of the penny. The water is held in place by surface tension. How many drops can you fit on a penny? Eventually, when the volume of water becomes too much, the dome will break, leaving you with a wet table.

## Pupil activity

## MAKE A WATER-POWERED BOAT

### What you do:

1. Make a hole at one end of the ice cream tub using a skewer or the point of a pair of scissors.
2. Make another hole at the same height in the disposable cup.
3. Use Plasticine or sticky tack to stick the disposable cup in the centre of the ice cream tub.
4. Push the bendy straw through the holes and plug any gaps with Plasticine.
5. Stand the straight straw in the boat using another blob of Plasticine.
6. Punch holes in the sails and thread them onto the mast.
7. Float the boat in a bath or paddling pool and then pour water into the cup.



### You will need:

- Disposable cup
- Small, empty ice cream tub or similar
- Skewer or pointy scissors
- Bendy straw
- Straight straw
- Plasticine or sticky tack
- The sails cut out from the template
- Hole punch

### You should find:

Water flows out of the cup through the straw at the back of the boat. This pushes boat in the opposite direction so that it moves forward.