Spinning





A British Science Association programme

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## ★ Here are some ideas to get you started

- $\star$  Make a model of a washing machine drum by making holes in a tub that has a lid.
- $\star$  Put this inside a bigger tub with a lid to collect the water.
- ★ You can spin this around at your side in a strong bag. Don't let go as you spin it!
- $\star$  A rolling pin is a good model of a mangle.
- ★ Roll your fabric on a sloping surface.
- ★ Remember to put something underneath to collect the water!

#### Now put your ideas to the test

Water may splash so wear an apron or suitable clothing.

- $\star$  Soak two pieces of the same fabric in water.
- ★ Separate the water from one piece of fabric using your mangle and the other piece using your washing machine drum.
- ★ Compare the amount of water you can separate from the fabric. Think about how you can make this a fair test.



Remember – a washing machine can spin around more than 1000 times every minute to separate water from your clothes. How fast can you spin your drum?

#### ★ Sharing your ideas

Take photographs of your investigation and your models. Send your pictures to Richie to help him decide how to dry his clothes.



# **Congratulations!**

You are a spinning solution finder. Collect your stickers and get ready for your next challenge.

### ★ Here are some extra things to do

- ★ Find out about other things that can be separated by spinning.
- ★ Find out how separating by spinning can help to generate electricity.
- ★ Find out how separating by spinning can help in medicine.

