



# Microfibre Experiment

## What you will need

- Fabric samples (synthetic and natural fibres)
- Scissors
- 5 jars (with lids)
- Magnifying glass or microscope (optional)
- Tap water
- 5 coffee filters
- Funnel and empty container

### STEP 1

Cut 5 fabric samples (synthetic and natural fibres) into small pieces, 1-2 cm<sup>2</sup>.

### STEP 2

Place each fabric sample into separate jars, filling each jar three-quarters full of water.

Screw the lid on tightly.

### STEP 3

Fill the table below with details about each fabric sample and initial observations before agitation.

### STEP 4

Shake each jar for 1-2 minutes to stimulate agitation.

Record any visible changes in the table below.

### STEP 5

Pour each jar's content through a coffee filter placed in a funnel into an empty container below.

Record observations about what is captured by the filter in the table below.

FABRIC NAME	NATURAL/ SYNTHETIC	INITIAL OBSERVATION	AFTER AGITATION OBSERVATIONS	FILTRATION OBSERVATIONS

## DISCUSS

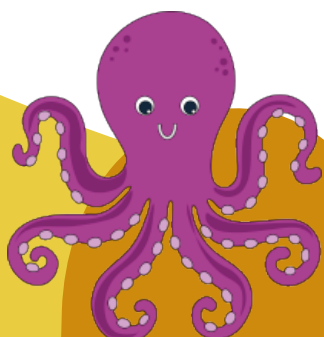
How might microfibres impact oysters' ability to filter water?

## ADDITIONAL TASK

Optional

Research and create a presentation or poster proposing practical solutions to reduce microfibre pollution.

Focus on actions individuals and communities can take, including tools, technologies, and lifestyle changes to minimise microfibre release into the environment. Be prepared to share your presentation or poster with the class and discuss your proposed solutions!



Native oysters filter seawater to consume phytoplankton and organic matter – this results in cleaner and clearer water.