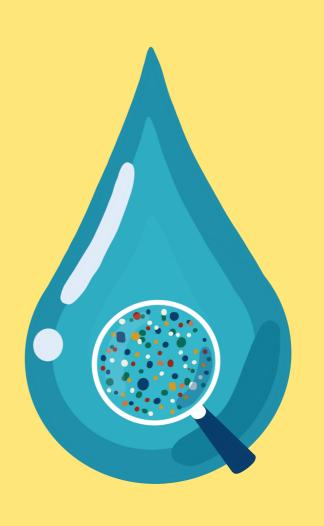


SECONDARY ACTIVITY

MICROPLASTICS

- Syllabus Reference
- Resources
- Activities





beachsafetyhub.org.au



OUTCOMES

- Follows a sequence of instructions to safely undertake a range of investigation types, collaboratively and individually SC4-6WS
- Mixtures, including solutions, contain a combination of pure substances that can be separated using a range of techniques. (ACSSU113) SC4-3CW

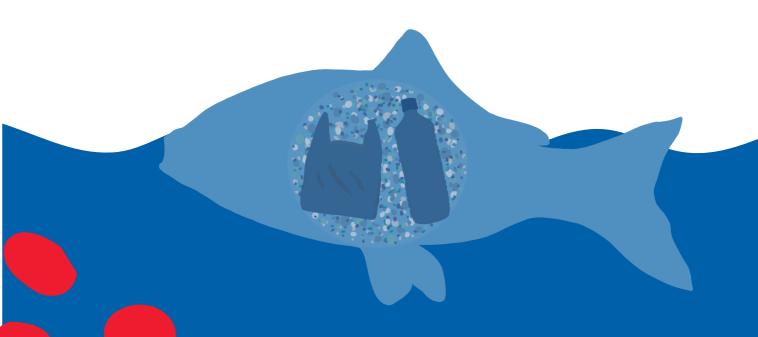


EXPERIMENT

Extraction of Microplastics from exfoliator

AIM

To extract microplastics from an facial exfoliator



MATERIALS & METHOD

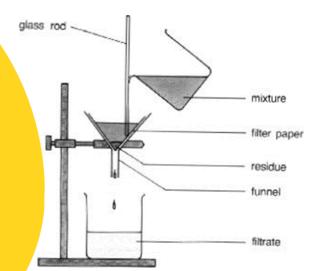


- Exfoliator
- Filter paper
- Funnel
- Water
- 2 x 250mL Beakers
- Retort stand
- Filter ring
- Mass balance
- Plastic Spoon
- Stirring Rod



METHOD:

- 1. Record the mass of the empty plastic spoon
- 2. Fill the spoon with exfoliator
- 3. Record the mass of the spoon plus exfoliator
- 4. Fill the beakers with 100 mL of water and dissolve the exfoliator into the water by stirring the spoon in the water
- 5. Record the mass of a piece of filter paper
- 6. Set up equipment as shown
- 7. Filter the water exfoliator mixture rinsing the initial beaker as needed
- 8. Dry the filter paper overnight



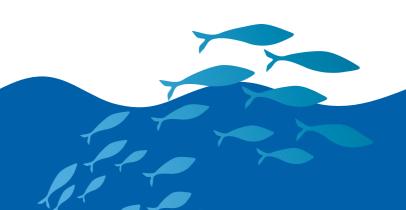
RESULTS & DISCUSSION

RESULTS:

Object	Mass (g)
Plastic Spoon	
Plastic Spoon + Exfoliator	
Exfoliator Mass (Plastic spoon + Exfoliator - Plastic Spoon)	
Filter paper	
Filter paper + microbeads	
Microbeads Mass (Filter paper + microbeads - filter paper)	

DISCUSSION:

- What mass of microbeads is being washed down the sink by someone using one spoonful of facial exfoliator to wash their face each day?
- Explain the effects of microplastics on the marine ecosystem.
- 3. How could the properties of microplastics be used to prevent them from entering marine ecosystems?
- 4. Calculate the mass of microbeads in one container of exfoliator



ADDITIONAL RESOURCES



HOW MICROPLASTICS AFFECT YOUR HEALTH





WHAT REALLY HAPPENS TO THE PLASTIC **YOU THROW AWAY - EMMA BRYCE**









CHECK OUT MORE SECONDARY TEACHER RESOURCES ON OUR HUB!



