

# Water on Earth

## Stage 1

Exploring water on Earth



# Lesson 1

# Water on Earth

Activity 1: Wondering about water

# Wondering about water on Earth?

Where is most of it?

Is there more water or land?

Does ice count as water?



# How did Earth get its water?

Nobody is sure where water first came from.

Some scientists think it arrived on Earth billions of years ago on icy comets.

Other's think water existed in rocks that made up Earth. Possibly volcanoes released water vapor into the atmosphere.

Or both! What do you think?



# Lesson 1

# Water on Earth

Activity 2: Where in the world is water?

# Where in the world is water?

➔ [Google Earth](#) [Google Maps](#)

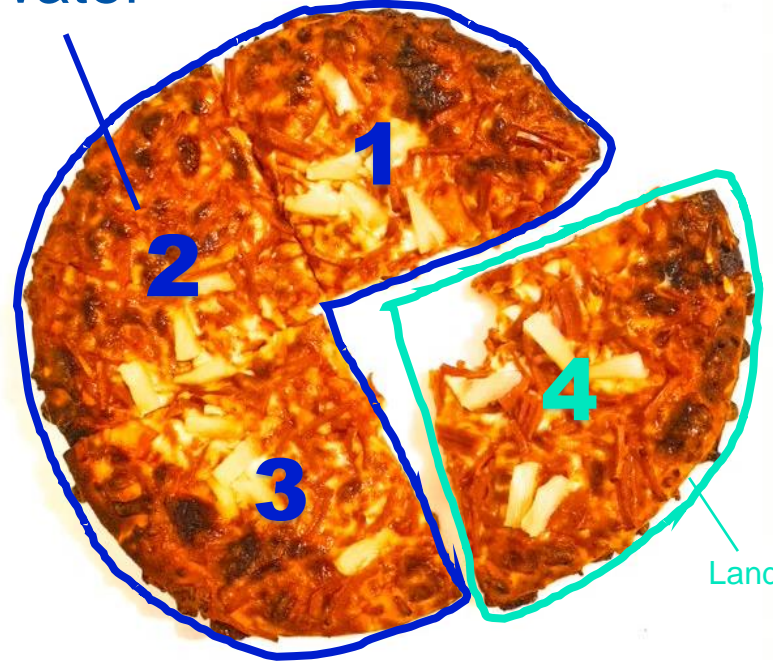




**71%, or about  $\frac{3}{4}$ , of the Earth is covered in water!**



Water



Land

# Lesson 1

# Water on Earth

Activity 3: Can you create an Earth artwork?



**we are so lucky,  
nearly 3/4 is  
covered in water**

**Can you create  
your own Earth?**



# Lesson 2

# Types of water on Earth

Activity 1: Is all water the same?

# Is all water the same?



# Find different types of water on Earth

➔ [Google Earth](#) [Google Maps](#)



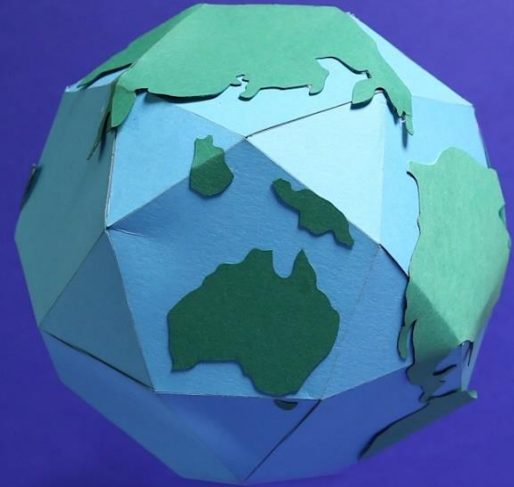


**Did you know there's even water underground?**



**there are many  
different types  
of water**

[Water on Earth video](#)



# Lesson 2

# Types of water on Earth

Activity 2: Demonstration: Measuring water on Earth



# Measuring water on Earth



bucket  
(oceans & seas)



More than half a glass  
(ice, glaciers)



Less than half glass  
(groundwater)



a few drops  
(rivers & lakes)

# Lesson 2

# Types of water on Earth

Optional activity: Can we remove salt from saltwater?

# Can we make freshwater from saltwater?















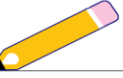

Freshwater has a little salt



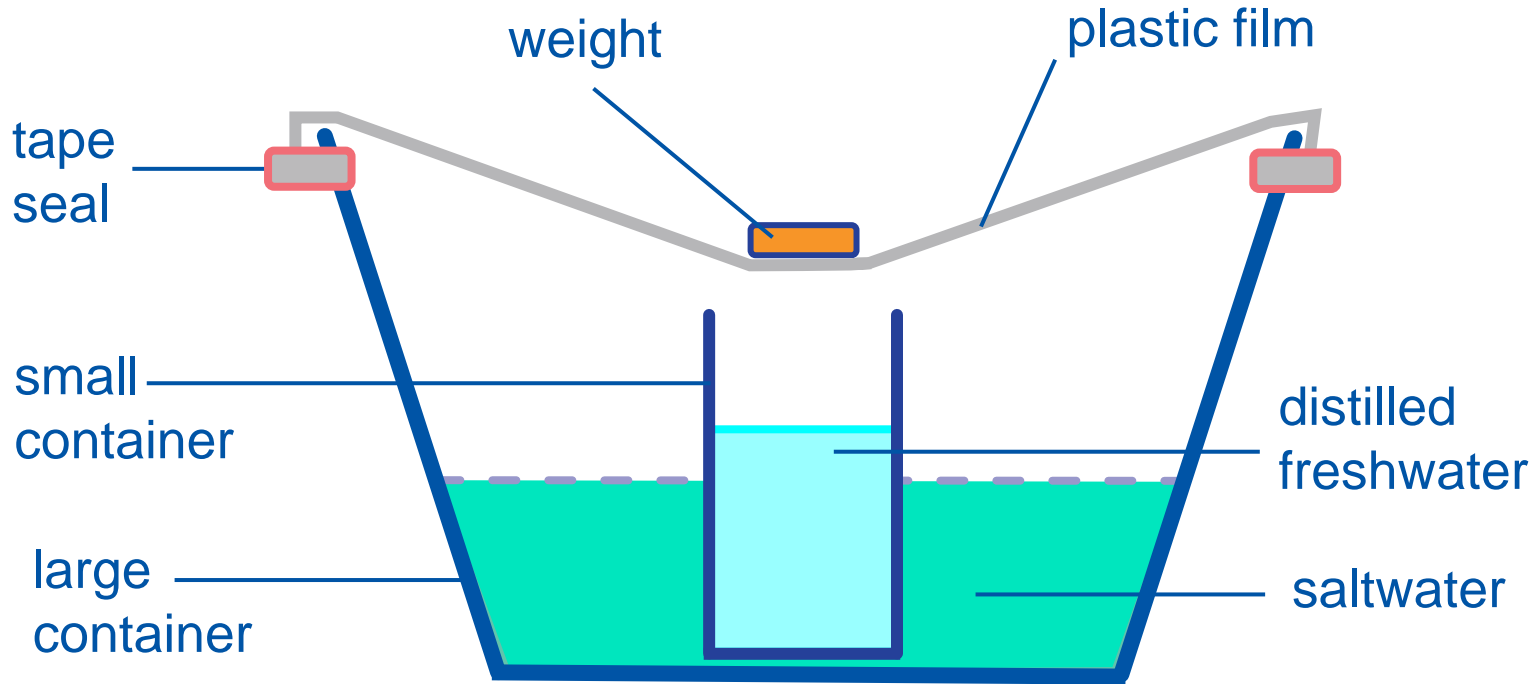
Saltwater has a lot of salt

# Plan an investigation

Experiment title: *Can we make freshwater from saltwater?*

<p><b>1 questions</b> What am I going to <b>investigate</b> (try to find out)?</p> <p><i>Can we make freshwater from saltwater? How?</i></p> 	<p><b>2 hypothesis</b> What do I think will happen (<b>prediction</b>)? Why?</p> 	<p><b>3 materials</b> What <b>materials</b> (things) will I use?</p> 
<p><b>4 method</b> How will I use my materials? Draw or take photos to help explain.</p> 	<p><b>5 hazards</b> What are some <b>hazards</b>? (things that could cause harm)</p> 	<p><b>6 risks</b> What can I do to reduce <b>risks</b>? (chance that hazards cause harm)</p> 
<p><b>7 observation</b> What did I...</p>   see  smell  hear  feel  taste?	<p><b>8 conclusion</b> What did I find out? Did my prediction come true? Why or why not?</p> 	<p><b>9 questions</b> What questions do I have now? What do I want to know more about?</p> 

# Distillation activity



**What happened and why?**



# Lesson 3

# Water in Australia

Activity 1: Where is water in Australia?



# Can you find....

→ [Google Earth](#) [Google Maps](#)



## Oceans

Pacific Ocean  
Indian Ocean  
Southern Ocean

## Rivers

Murray River  
Darling River  
Blackmore River  
Parramatta River  
Hawkesbury–Nepean River

## Lakes

Lake Burragorang  
Kati Thanda–Lake Eyre  
Wilkinkarra–Lake Mackay

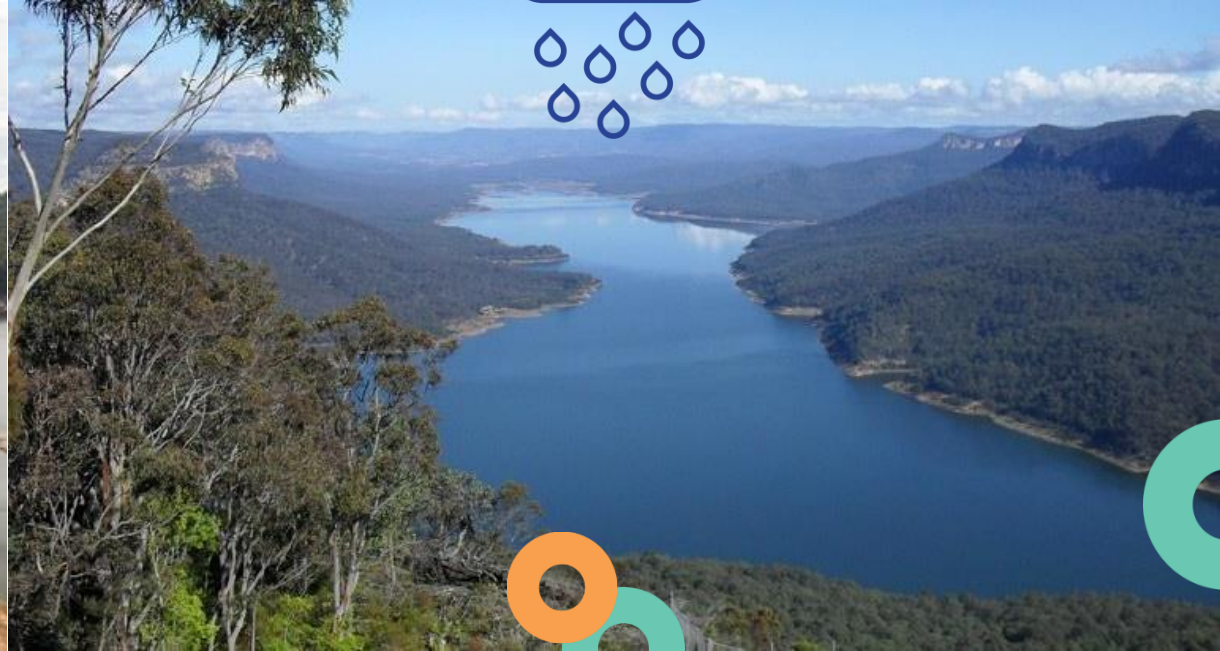
**In Sydney, we have a famous harbour**





# A very large dam with a very a big lake

Warragamba Dam is our largest dam in Sydney. It stores water from rain and when full holds enough water to fill Sydney Harbour four times!



# Many rivers and lakes

This is the Nepean River located in the south-west and west of Sydney.





# A very big ocean

We swim in the Pacific Ocean



## Did you know?

The deepest part of the ocean is about 11,000 m down.

That's over 350 Blue whales head to tail.



# Lesson 3

# Water in Australia

Activity 2: Is water near you?



# Find your special local waterway

Create your own watery walking guide or map

**Things to see**

Water views

Bird watching

Plane watching

**How to get here**

Bus

Train Walk

**Visit the wonderful**

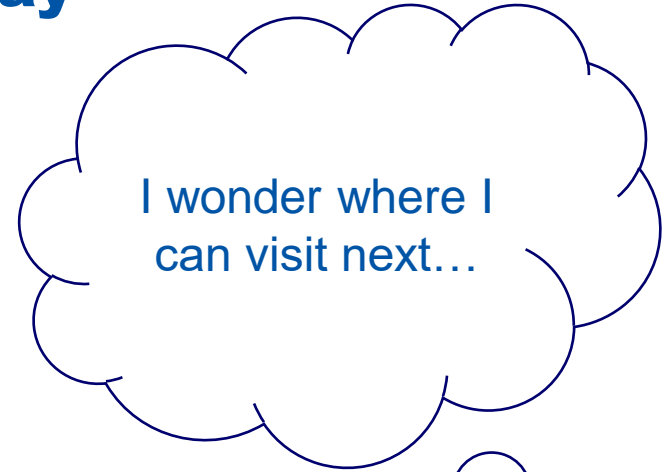
Write the name of your waterway

Alexandra canal

Picnic, play park, BBQ, sports

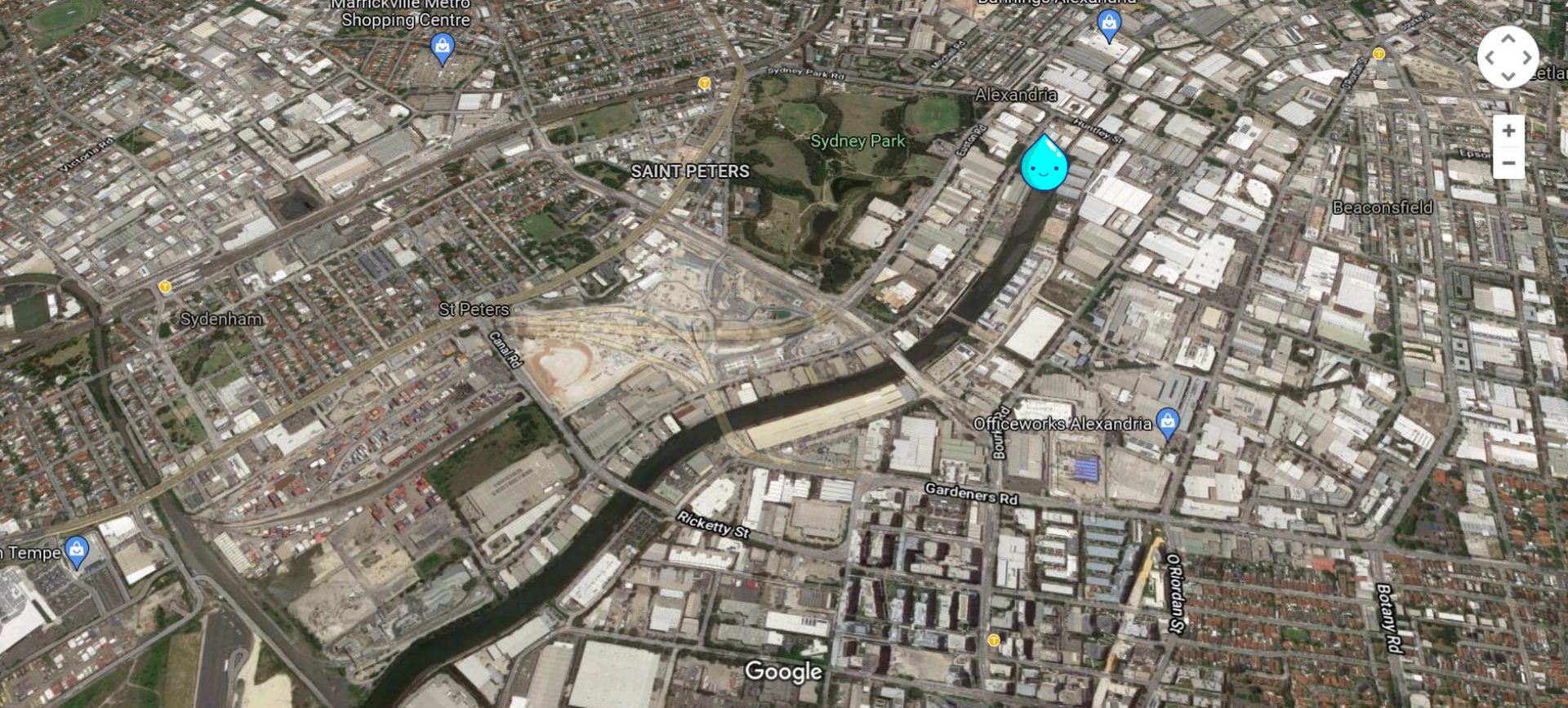
Sydney WATER

Back cover Front cover



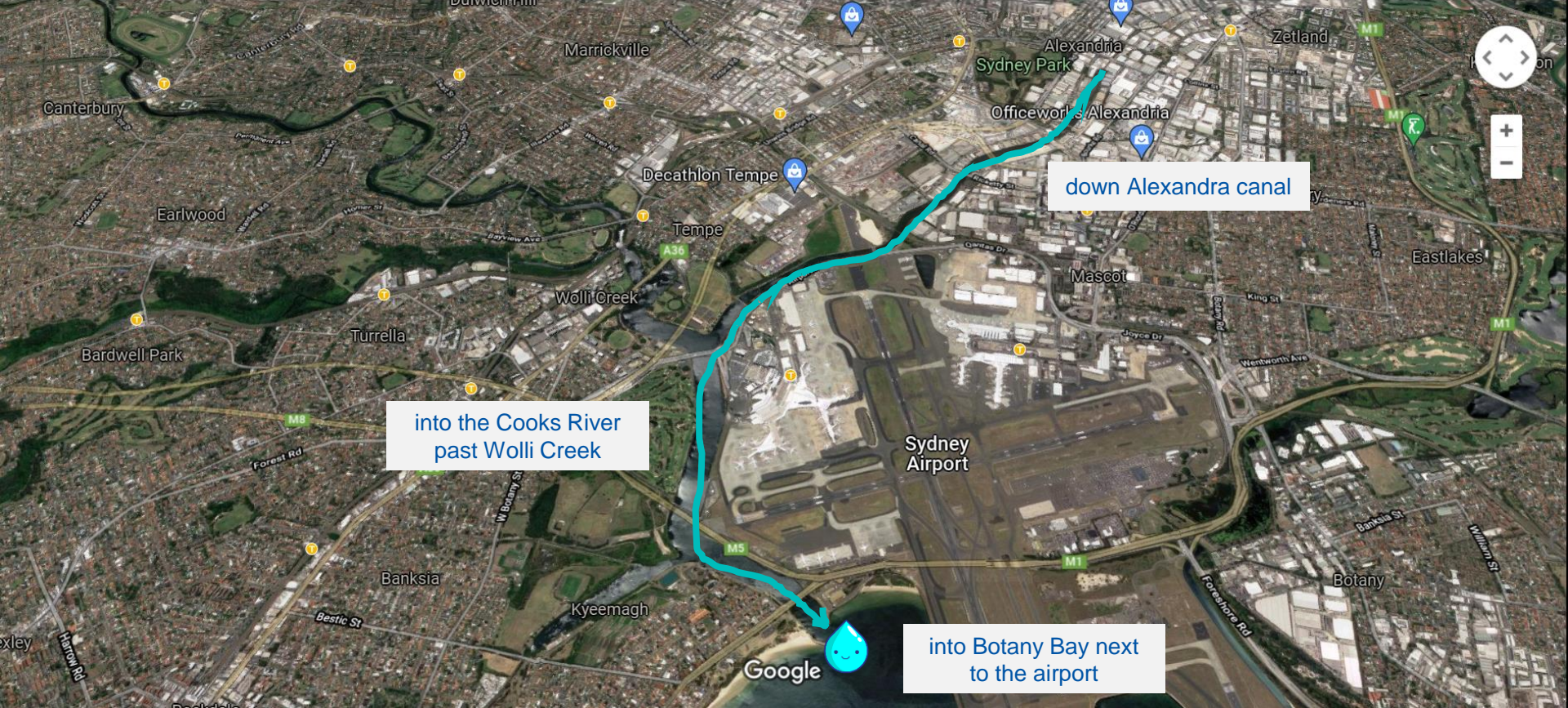
# Follow water's path to the ocean

Alexandra Canal near Sydney Park





# What does it pass along the way?



down Alexandra canal

into the Cooks River  
past Wollie Creek

into Botany Bay next  
to the airport





# What can you see? What can you do?



# Lesson 3

# Water in Australia

Activity 3: Can you count and compare?

# Can you count and compare...

how many squares are mostly water? How many squares are mostly land?



Is there more water or land?

# Types of water on Earth

Extension: Practical Investigation – Is there a difference between saltwater and freshwater?

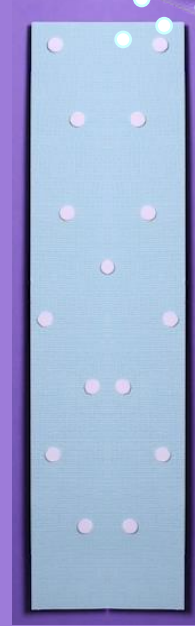


# Is there a difference?

Can we test the difference?




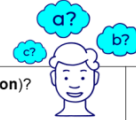












Freshwater has a little salt



Saltwater has a lot of salt

# Plan an investigation

Experiment title: Is there a difference between saltwater and freshwater?

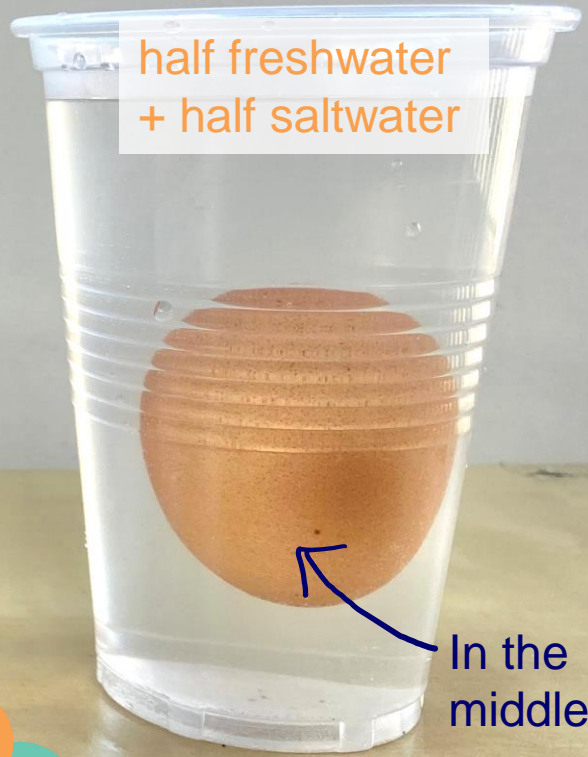
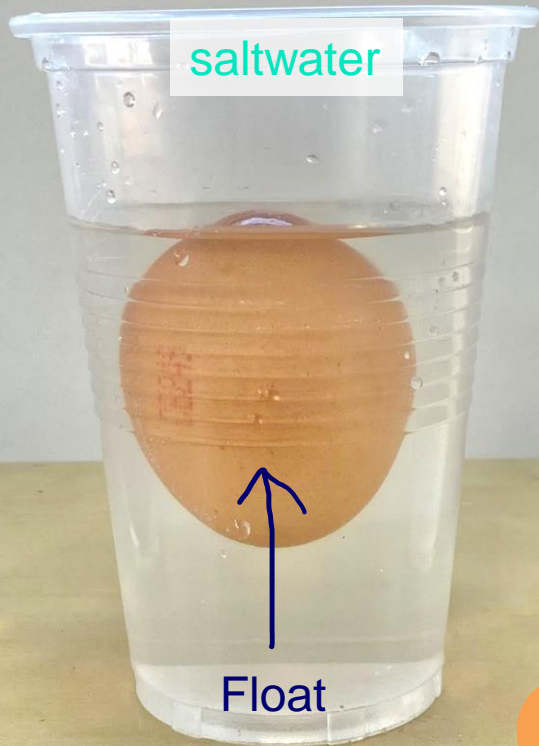
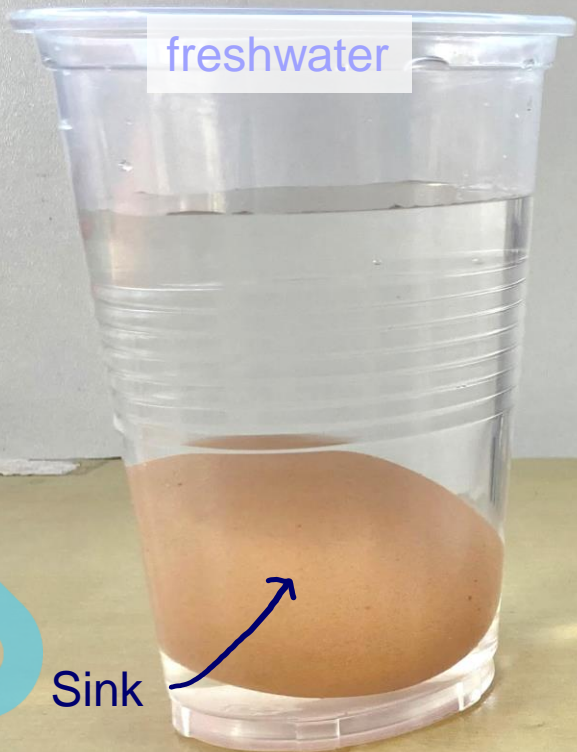
<p><b>1 questions</b> What am I going to <b>investigate</b> (try to find out)?</p>  <p>How do we test the difference between saltwater and freshwater?</p>	<p><b>2 hypothesis</b> What do I think will happen (<b>prediction</b>)? Why?</p> 	<p><b>3 materials</b> What <b>materials</b> (things) will I use?</p> 
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# Are the different types of water going to act the same?



Cup	Type of water	Make the egg float or Sink?
One	freshwater	?
Two	saltwater	?
Three	half freshwater + half saltwater	?

# What happened and why?



# What I learned about water

Write or draw in a droplet.

