

Episode 8: Salty Sea Turtle



Why do objects sink or float? Dive on in with Rachael 'eggs-perimenting' with water density using eggs, salt and water. Turn your egg into a sea turtle and see if it will sink or float!

Scientific concept:

Salt effects the density of water.

Science process skills:

Observing, predicting and comparing.

Let's investigate:

Does salty water help things float?

Materials

- 2 x jugs of tap water
- Egg
- Large plastic spoon
- 2 x cups salt
- Marker
- 2 x tall clear containers or beakers

Experiment procedure

1. Draw a face and flippers on an egg to turn it into a sea turtle.
2. Pour water to fill two tall beakers. Add 2 cups of salt to one beaker and mix to dissolve.
3. Place your sea turtle egg into the beaker full of tap water and observe as it sinks.
4. Place the sea turtle egg into the beaker full of salt water and observe as it floats. Salt changes the water density by making it heavier, helping the egg to float.



Early Education links

Episode themes relate to [EYLF Learning Outcomes](#) 4.2, 5.1, 5.2 and 5.4. Invite children to predict what will happen when the egg is placed in the tap water and salt water. Will the egg sink or float? Model scientific language such as 'density', 'dissolve' and 'heavy'. Develop mathematical understandings by asking children to measure and count the two cups of salt required for this experiment.

Follow-up learning

- [Wonder Gang: Wonder Cards](#) suggest ideas to extend children's knowledge about 'Why the sea is salty?' and 'Why do sea turtles lay eggs on the beach?' through play-based STEM.
- Using a tray filled with water, encourage children to predict and test whether familiar items sink or float. Place two different coloured hula hoops on the ground and ask children to record their findings, by classifying the objects into groups according to whether they sink or float.

