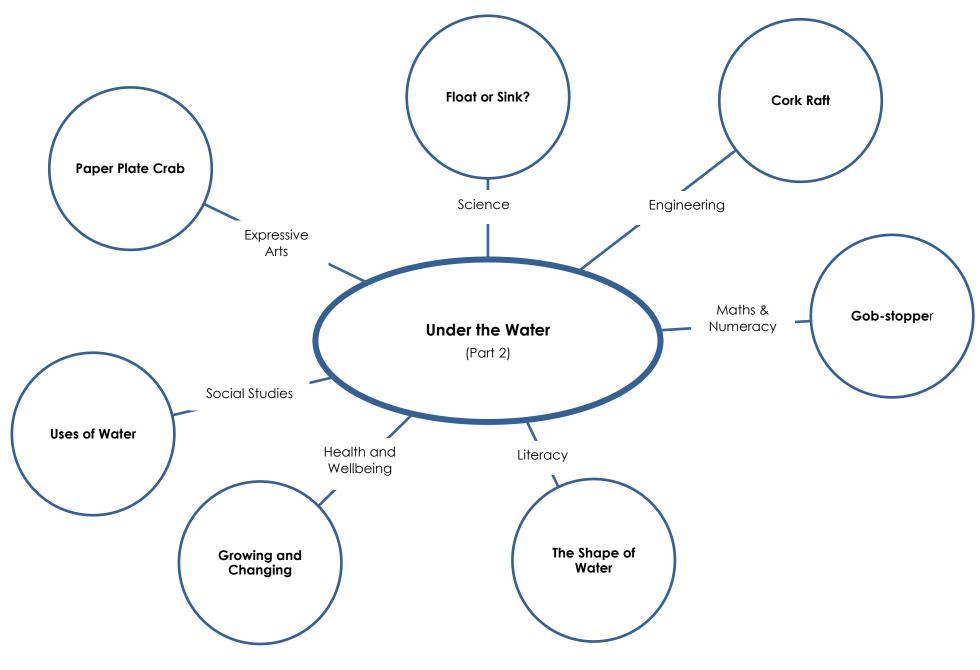
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Learning from Home





Science Challenge



Float or Sink?

Ask a grown up for help with this experiment.

You will need: A large bowl or container, water, things to test, e.g., marble, coin, cork, elastic band, candle, empty plastic bottle, sponge, playdough, paper clip, pencil, Lego etc.

Instructions:

- 1. Fill a large bowl or container with water.
- 2. Try to predict what will happen for each object. Do you think they will sink or float?
- 3. One at a time, put the different things you have chosen to test into the water and watch to see which of them floats and which of them sinks.
- 4. Record your results



Activity and Image from TES

Click here to learn about floating and sinking:

https://www.youtube.com/watch?v=eQuW8G2QV Q

Use a results table like this one below.

Draw 4 objects to test here:		

Predicting:

If you think your object will float colour it in **blue**If you think your object will sink colour it in **red**Results:

My Object	It <u>floated (</u> ✓ or X)	It sank_(✓ or X)
_		

Were your predictions right or wrong?

Why do you think some objects floated and some sank?

The Science

Density is how tightly packed the material inside an object is

Things that are denser than water will sink. Things which are less dense than water will float.

*Just because something is heavy does not always mean it will sink. E.g., a ship might be very heavy but if it is less dense than water, it will still float.



Engineering Challenge



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Activity and photos from

www.kitchencounterchronicle.

Cork Raft

Adult supervision required

Your challenge is to build a raft that can safely carry a family of 3 dolls across water.

You will need:

- *wine corks (or empty plastic water / juice bottles)
- *cardboard sheets
- *leather string (or elastic bands and string)
- *colouring pens / pencils
- *glue
- *sticky tape or pads
- *peg people (or some sort of people e.g., lego, duplo etc.)
- *somewhere to test your raft a large basin you can fill with water or even a bathtub



- 1. Stick or fasten your corks (or empty plastic bottles) together, making sure that whatever you use to do this has some long pieces left attached which can be pulled.
- 2. Next make a 'base' to go on top. Your family will need somewhere to sit.
- 3. Decorate the base if you wish using your coloured pens / pencils
- Attach your base on top of the corks using glue or sticky tape / pads
- 5. Now place your raft into the water and sit your family on top.
- 6. Pull the strings can you make it from one side to the other safely?



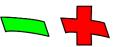
If you have been successful, try making the family larger by adding more dolls. How many can you add before the raft sinks?



Maths & Numeracy Challenge





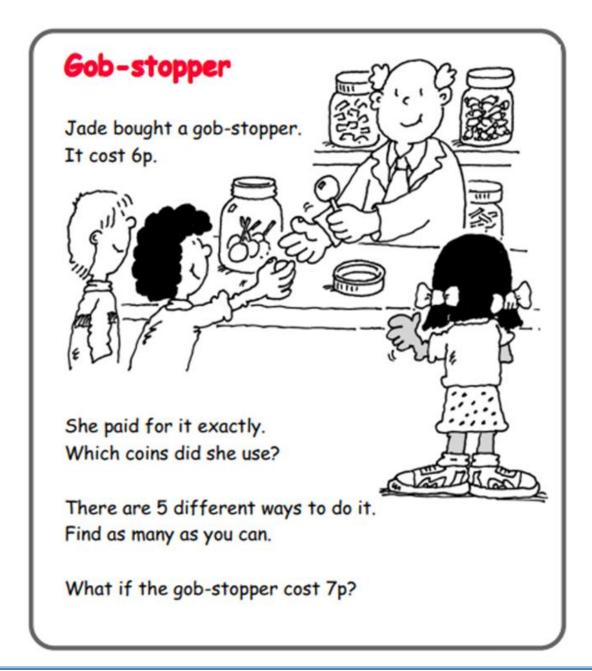


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Gob-stopper

Ask an adult to help you read through the problem below. Make sure you know what you are being asked to do.

If you have some coins at home, ask if you can use them to help you work out the answers.





Literacy Challenge



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The Shape of Water

A shape (or concrete) poem is a poem which is written in a shape similar to whatever is being described – an object, shape or person. The words don't have to rhyme. Here is an example of an octopus shape poem from **Pinterest**.



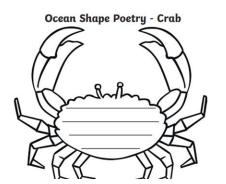
Click here to watch a video which will tell you more: https://www.youtube.com/watch?v=kmGj1h3CDN0

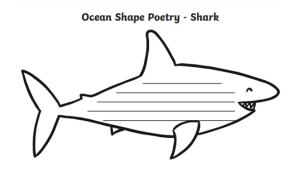
Before writing your poem, it will help to write a list of all the words or ideas you can think of describing your underwater creature, deep sea diver, submarine or maybe 'shivering' seaweed.

You may need to ask a grown up to help you write down your ideas

Here are some examples of templates from **Twinkl.co.uk**

Ocean Shape Poetry - Starfish







You could use coloured pens or pencils to decorate your poem after you have written it to make it look even better.

Give it a go and when you are finished remember to share your work with somebody at home.



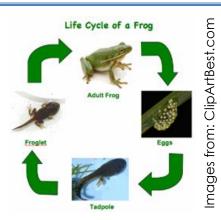
Health & Wellbeing Challenge



Growing and Changing

Have a look at this picture showing the life cycle of a frog. See how it changes from a simple egg to a tadpole to a froglet before finally turning into an adult frog.

We go through lots of changes from when we are born too, although it takes much longer for us to be fully grown adults than it does for a frog.



Have a look at the pictures below then answer the questions.

ok at the pletores below their answer the questions.						
1.	2.	3.				
4.	5.	6.				

Age	What I looked like	Something I could do	Something I couldn't do
When I			
born 1			
3			
5			

- 1. How old are you? Which of the pictures shows someone about the same age?
- 2. Complete this table to show what you were like at these ages.

You can either write in the boxes or draw pictures. Keep going until you reach your age now.

*Talk to an adult at home to remind you of what you were like when you were very young. How far back can you remember?



Social Studies Challenge

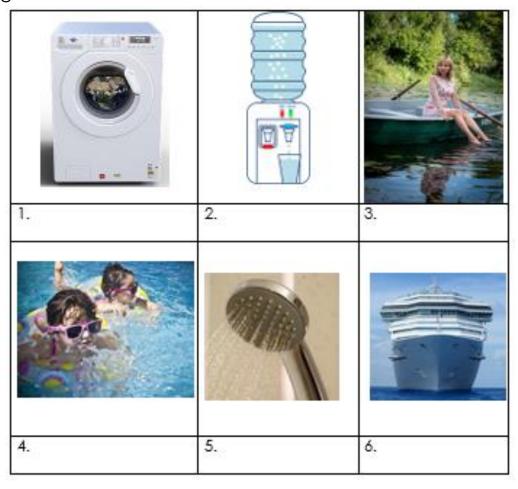


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Uses of Water

All living things need water to survive.

Have a look at these pictures. See if you can match the information from the word bank to the correct picture. Say what is happening in each one and how the water is being used.



water cooler - to drink from swimming pool - for fun and exercise
shower - to keep clean washing machine - to keep clean
cruise ship - for tourism and leisure (work for some)
boat - for leisure



Expressive Arts Challenge



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Paper Plate Crab



*An adult may need to help with the use of scissors.

Have a go at making a fantastic paper plate crab like this one. Feel free to add extra details to your own one.

Image from: www.youtube.com (Baker Ross)

Click here to watch someone make one step by step:

https://www.youtube.com/watch?v=ZBIg5R oupQ

You will need:

- A paper plate (and some paint and or pens / pencils to colour it in)
- Sheet of orange or red card
- 2 craft / googly eyes
- Glue stick or sellotape
- Pen / pencil
- Scissors

Instructions:

- 1. Fold your (dry) paper plate in half.
- 2. Cut some strips off the card to make legs, claws and eye stalks.
- 3. Stick or Sellotape on the legs, claws and eye stalks, attaching the eye stalks to the folded flat edge of the plate.
- 4. Stick on the googly eyes.
- 5. Draw on a mouth
- 6. Stand your crab up and then give yourself a clap.

