

Home Learning Practical Science

Here are some fun science activities you can try at home with your grown ups using things you have around your home. You could take photos of your learning and write about it in your home learning book. Have fun! Mrs Drew.

Rainbow Magic

You will need:

- Kitchen roll
- Felt tip pens
- Two bowls of water
- Paper clip



Instructions

- 1) Cut the kitchen roll into the shape of a rainbow
- 2) Attach the paper clip to the top of the rainbow and attach some thread to this (you don't have to do this bit but it might make it easier to hold)
- 3) Colour a rainbow with felt tip pens from the bottom of both the ends of the rainbows up about 2-3cm
- 4) Hold the rainbow over the water with the ends slightly in the water and watch the colours travel up the rainbow

Magic Arrow

You will need:

- A large glass of water
- Sheet of paper



Instructions:

- 1) Draw an arrow on your piece of paper
- 2) Place the arrow behind the glass of water

You should notice the arrow flips and points in the opposite direction

Plastic Milk

You will need:

- 1 cup of milk
- 4tbsp vinegar
- Sieve



Instructions

- 1) Take your cup of milk and warm it in the microwave for about 1min30s (don't let it boil).
- 2) Stir in 4 tablespoons of vinegar
- 3) The milk will start to clump. Stir it for around 1 minute.
- 4) Strain the milk through a sieve. All the clumps will stay in the top - push down on them to get all the liquid out.
- 5) You should be left with one big lump of squashy 'plastic' milk - you can add colour to it and mould it into shapes.

Ice Rescue

You will need:

- A container
- Small plastic toys (e.g. lego men / animals)
- Water
- Freezer
- Salt



Instructions:

Place your small plastic toys in the container and fill almost to the top with water. Leave in the freezer until it is frozen solid. Remove the container and set aside for 5-10min until it can be tipped onto a tray. What happens when you pour salt on your ice? What happens if you put some warm water on the ice? What do you think would be the fastest way to rescue your toys from the ice? How can you find out?

Sink the foil boat

You will need:

- Kitchen foil
- Tub of water / bath / sink
- Marbles (or anything to act as a small weight e.g. 1p coin)



Instructions

- 1) Use some tin foil to see if you can make a boat shape.
- 2) Test your boat on the water whilst it is empty to check it floats
- 3) Make a prediction - how many marbles/pennies will sink your boat?
- 4) Test your boat by adding your weights one at a time. Count how many it takes to sink your boat.
- 5) Will it need more or less weights if your boat is a different shape or size?

Pepper and surface tension

You will need:

- Ground pepper
- A plate or bowl filled with a little water
- Water
- Hand soap



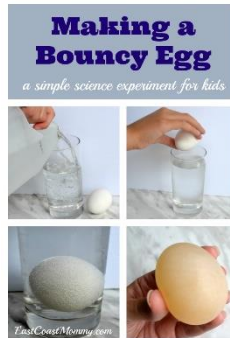
Instructions

- 1) Sprinkle some pepper onto the water on your dish
- 2) Put your finger into the middle of the water - what happens?
- 3) Now put some soap on one of your fingers.
- 4) Put your soapy finger in the middle of the water and watch what happens.

Bouncy Eggs

You will need:

- An egg
- A glass
- White vinegar



Instructions

- 1) Fill a glass with white vinegar and carefully put the egg inside
- 2) Leave your egg for 2 days, then carefully rinse off the vinegar rubbing the shell gently.
- 3) Leave for another day in the vinegar if some shell remains and then rinse again.
- 4) Once the shell is completely removed carefully try to bounce the egg.
- 5) Drop it carefully from a low height, the egg should bounce up from the surface!

How to make an egg float

You will need:

- An egg
- Water
- A jug or glass of water
- Salt



Instructions

- 1) Fill the jug or glass around 2/3 full of tap water.
- 2) Drop the egg in carefully and watch it sink to the bottom.
- 3) Remove the egg and add about 5 tablespoons of salt, test to see if your egg floats.
- 4) If your egg still sinks, add more salt until it floats!