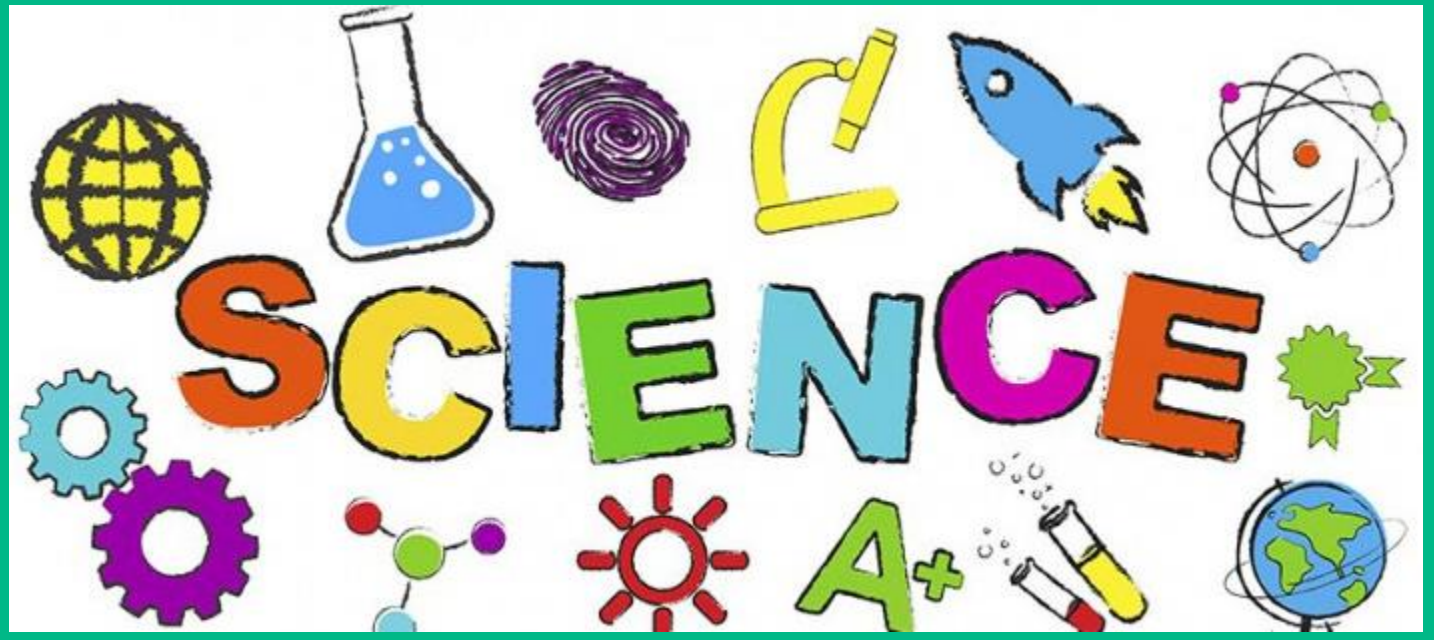
Tuesday 15th March 2022

11-20 March British Science Week 2022

What is Science?



What are amphibians?

What are fish?

What are mammals?

What are birds?

What are reptiles?

Website links:

https://www.bbc.co.uk/bitesize/topics/z6882hv/articles/zc6br82

https://www.bbc.co.uk/bitesize/topics/z6882hv/articles/zp92xnb

https://www.bbc.co.uk/bitesize/topics/z6882hv/articles/zp9pfg8

STATIC ELECTRICITY

Jumping Leaves

You'll need:

Balloon
Hair or wool jumper
Tissue paper - cut into leaf shapes

Instructions

Rub the balloon on your hair or jumper.

Hold the balloon over the tissue paper leaves and watch them jump up to the balloon.

Why does this work?

Rubbing the balloon on a wool jumper or hair charges it with static electricity. This attracts the tissue paper making it jump up to the balloon where it will stay until the charge wears off.

Challenge

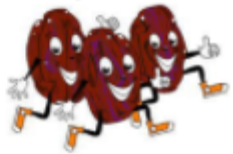
Try again using thicker paper, does the tissue paper still stick to the balloon?

If you rub the balloon on your hair for longer does the tissue paper stick for longer?

Make a Ping Pong Ball Float

DANCING RAISINS!

Professor Lewis -Experiment of the Week
Compliments of Steve Spangler & Super Teacher



Materials: 10-15 raisins, clear soda, tall clear drinking glass
Experiment:
Fill the glass with soda.
Drop 10-15 raisins into the soda.
Focus all of your attention on those raisins. Are they moving? Yes! They're floating, they're bobbing up and down, they're dancing!

*** Dancing Raisins Variation**
Throw in macaroni, noodles, lentils, craisins, even corn!
Which combination of soda and dancers "performs" the best show?
Keep experimenting until you find the best combination!

How It Works:
Raisins have more density that the soda, so they sink to the bottom. But the carbon dioxide bubbles stick to the surface of the raisin as they rise through the liquid. When they stick to a raisin, they give it extra buoyancy, causing it to float to the top. When the bubbles detach from the raisin, it sinks again.

Jumping Coins

This is a classic science activity of thermal expansion. Air inside the bottle gets heated up when you wrap your hands around it forcing it to move out thus making the coin jump!

You will need:

- A bowl
- Cold water
- Coin
- A glass bottle

Instructions:

- Fill the bowl with ice-cold water.
- Place the coin at the mouth of the bottle and slowly put the bottle head-down into the bowl that is filled with ice-cold water.
- Make sure both the coin and the glass bottles are chilled.
- Wrap both your hands tightly around the bottle.
- The coin will start moving up and down.