



Wonderful Wednesday – Learning Menu

The Science of Bottle Flipping

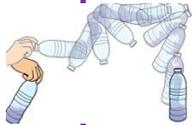
We have all seen the trend with bottle flipping, but have you ever thought of the science behind it?

All you need is a small plastic bottle, some water and a hard surface.

1. Fill a small plastic bottle 1/3 full with water and screw on the lid.
2. Over a hard surface, loosely hold the bottle by the top. Swing the base of the bottle forward and up and let go.
3. Try to get the bottle to turn in the air and land on its base.
4. If this is easy for you, try a bigger challenge: landing the bottle on its lid.

The Science Behind It

The keys are in the centre of gravity and momentum. When you first grab the bottle, it is upright so the water is in the bottom of the bottle. When you toss the bottle it starts spinning around the lid. The water sloshes around as the bottle starts to spin. Gradually the momentum is transferred to the water so the spinning motion of the bottle slows down to almost nothing. At this point, the bottle falls straight down due to gravity landing upward.



Walking Water

This is a super fun experiment using items that we all have in the house.

You will need, at least 3 empty glasses (parent supervision required), water, food colouring and kitchen roll (toilet paper).

You can choose the colours you want to mix. Any colours will do. Fill a jar for each colour (nearly to the top of water) and add a couple of drops of food colouring, then mix. In-between each jar add an empty jar. Then you need to cut a paper towel in half and fold in into quarters lengthwise. Stick one end of the paper towel into the coloured water and the other end into the empty jar.

Now, wait and see the magic happen!



Tree Safari

Trees are all different at this time of year. Some with leaves, some without. Some leaves green, some brown. They are all unique!



Go on a walk. How many different types of trees can you see and find? Do you know their names?

If there are any leaves around that are clean, could you pick them up and do some

Reading Eggs

I have sent your parents your username and password for the 'Reading Eggs' website which you can visit by clicking here.

Log onto your account and get reading! There are hundreds of books that can read and the more you read, the more 'eggs' you receive so you can personalise your account.



You can also log onto PurpleMash and go to 'SeriesMash' which also has many, many books for you to enjoy. The books that are mainly appropriate for our class are in the 'Emeralds' section.

TTRockstars

Spend sometime today on TTRockstars. See if you can earn some points to spend in the shop and customise your character. You can also play games against other people in your house! TTRockstars battle at 10am, Wembley Arena!



Astounding Inventions

Over the past few weeks, we have been reading 'Operation Gadgetman' in Guided Reading. I know how much you have all loved this story so far!

Today, you could create your very own invention (it doesn't have to be the one you planned the other week). You could use the recycling (if clean) to help build this creation. It may help planning it out first, looking for the materials and then building it. Please always have a grown up with you when using scissors.



Skittles Experiment

Ever wanted to make an edible rainbow, that you can literally see grow? Now is your chance!

You will need:

- * Skittles
- * A plate (white if possible)
- * Water

Instructions:

- 1: Place your skittles onto your plate, around the edges. You could make a pattern with these or even double the row of Skittles.
- 2: Slowly and carefully pour water onto the plate, trying to miss the Skittles so they do not get touched by the pouring water.
- 3: Observe what happens!

