



Inside the Issue

EXPERIMENTS

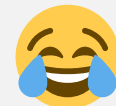


We share with you some of our favourite science experiments that you can do at home with ingredients that you can find around the house.

BADGE OF THE WEEK

A spotlight on one of the interest badges you can work towards in your spare time. Each week we will give you details of what you can do

BEST JOKES



Are you enjoying our jokes of the week or do you think they are truly awful? Either way we hope they make you smile!

EXPLODING INTO WEEK 4!

Hi everyone, we hope you are all still keeping safe and well. Welcome to the 4th edition of of Brownie Bells, it's all about Science this week and we have some easy experiments for you to try. Charlotte and Harriet have been having a busy (and messy) time with their experiments. The recipe this week is super fun, who knew soil could taste so good!!

Don't forget we would love it if you could send us some things to go in our next issue, if you want to tell us what you've been up to, send us some pictures or tell us a joke then please email to us at hassocksbrownies@outlook.com



RAINBOW IN A GLASS



Have a go at making your very own rainbow in a glass at home.

You will need

- 4 drinking glasses
- Measuring Jug
- Food Dye
- Sugar
- Syringes
- Spoons
- A small glass to layer the coloured water into

Method

1. Fill each glass with 100ml of warm water
2. Add a couple of drops of different food dye to each glass and stir
3. Decide the order in which you would like to layer your colours from top to bottom
4. Starting with the bottom colour – add 3 Tbsp of sugar, add 2 Tbsp of sugar to the next colour, 1 Tbsp of sugar to the next and none to the top colour.
5. Stir vigorously until all the sugar has dissolved
6. Let the coloured water cool completely
7. Using the Syringe, add 20ml of the bottom colour to a small glass, then 20 ml of the next and so on
8. Hopefully you will have created a layered rainbow water effect into the glass

The Science Bit

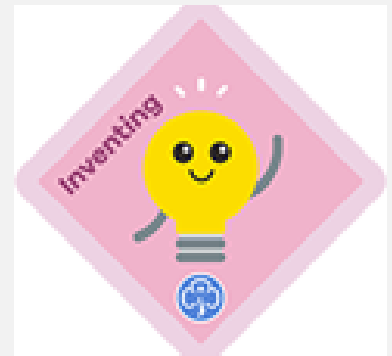
The sugar particles are small enough to fill the gaps between the water particles. As more sugar is added, more space between the water particles is filled and the volume of liquid increases.

Density refers to the number of particles in a given volume. So the glass with 3 Tbsp of sugar contains the largest number of particles per 100ml of water and is, therefore, the densest.



INVENTING BADGE

Did you know that there are a 18 interest badges designed for Brownies to work towards at home. You can work on them in your own time and in your own way. Each badge comes with three challenges, when you have completed them you need to show us what you have achieved. Just remember its not about making the most beautiful or impressive thing, its about doing your best and trying your hardest.



1. Get inspired

Think about all the inventions you use to make your life easier.

What types of problems do the inventions solve? How do they work? How different would tasks and life be without them?

Find two inventions you use that were invented by a woman or a girl. Then, find out a fact about her life and career.

2. Design

Take on the role of an inventor.

Think of a problem you come across in every day life. Can you solve it by coming up with your own invention?

The problem can be anything from silly to serious, to simple. Come up with a design for your invention.

3. Make

Now that you have designed your invention it's time to create a prototype.

A Prototype is a model of your invention based on you design. This is a great way of testing what your model would look like and how it would work.

MAKING MY OWN OOBLECK

by Charlotte

"It is so much fun to make and although it does make a mess it is pretty easy to clean up. All you need to make it is Cornflour and water. You mix half the amount of water to cornflour, so if you have one cup of cornflour you use half a cup of water. Mix it all together and that's it. If you want it a different colour you can add a bit of food colouring."



Now for the science bit... Oobleck is a non-newtonian fluid. That is, it acts like a liquid when being poured, but like a solid when a force is acting on it. You can grab it and then it will ooze out of your hands. Make enough Oobleck and you can even walk on it!

MY COKE VOLCANO

by Harriet

"I've wanted to do this experiment for ages and finally my mum got me the ingredients. All we needed was a cheap bottle of cola and some Mentos candy.

We went into the front garden and put the mentos into the bottle of cola and then stood back and watched it explode. It was great fun, but I want to make it go higher next time!"



"Now for the Science bit...As the Mentos candy sinks in the bottle, the candy causes the production of more and more carbon dioxide bubbles, and the rising bubbles react with carbon dioxide that is still dissolved in the soda to cause more carbon dioxide to be freed and create even more bubbles, resulting in the eruption."

ORANGE FIZZ



A final quick experiment. cut up an orange and dip a slice into baking soda. As you bite into it it should start to bubble or fizz in your mouth!

When the citrix acid in the orange and the baking soda mix it makes carbon dioxide bubbles, the same as in the bottle of cola.

WEEKLY RECEIPE



SOIL LAYER PUDDING

You will need:

- Chocolate chips
- Chocolate mousse
- Chocolate Cookies
- Shredded coconut
- Green food coloring
- Gummy worms
- Clear plastic cup

In each cup layer up the ingredients to look like the layers of soil in the ground.

Bottom:

A handful of chocolate chips (This bottom layer represents the bedrock.)

Lower-Middle:

Chocolate mousse. (This lower-middle layer represents the subsoil layer.)

Upper-Middle:

Crushed chocolate cookies. (This upper-middle layer represents the topsoil layer.)

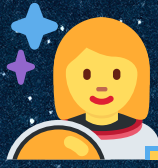
Top:

A couple gummy worms and a handful of green-colored coconut flakes. (These represent the organic material at the surface level.)

If you fancy making a more healthy version of you soil layer udding you could try: almonds or another small-type of nuts for the bedrock, yogurt for the subsoil, granola for the topsoil, and several berries for the organic matter on top.

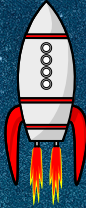
Cissie & Hannah's Back Page

How did the Astronaut
serve dinner in outer
space?
On Flying Saucers!
From Harriet



Why did Mickey Mouse go
to outer Space?
He was looking for Pluto!

What kind of music do
planets sing?
Neptunes!

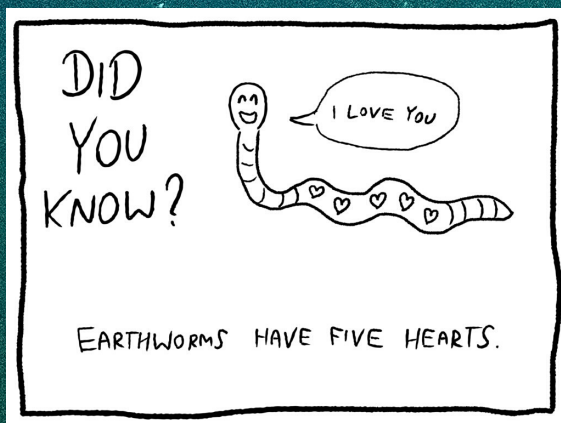


Why did the cow go to
outer space?
To visit the milky Way!

What is a spaceman's
favourite chocolate?
A marsbar!

How do you stop an
Astronauts baby from
crying?
You Rocket!

What come from
another world and are
really really slow?
Snailens!



Or try this old advert which teaches you
moon phases with Jaffa Cakes!
<https://youtu.be/-dtmRmOHK78>

