

Year 4 Practical Activities w/c 25th May 2020

Have a look at the following activities. Why not try some of them out? You could send a photograph of your work to your teacher at year4@brampton.newham.sch.uk. The Oak National Academy will also be launching a range of extra-curricular activities over half-term so have a look and try some of those activities out too! <https://www.thenational.academy/>

English

Look carefully at the picture below. Answer the following questions:

- Why is the girl inside the jar? How did she get there?
- Can she get out? Does she want to?
- Does she have everything she needs inside the jar?
- Why is the cat looking at her? Are they communicating? Are they friends?
- Write in first person. Choose whether you want to write from the girl's perspective, or the cat's.
- Imagine a world where animals keep humans as pets. Would anything be similar to our world as it is? What would be different?

Credit: <https://www.onceuponapicture.co.uk/the-collections/the-character-collection/>

THAT JAR LIFE



Credit: Little Oil/ Jhao-Yu Shih

Can you create a world in a jar? You could use a story you know for inspiration. Describe the setting and what you used to make it. Who are the characters and how did they get in the jar?



Mathematics

Nim-7 for Two – credit: <https://nrich.maths.org/>

Here's a game to play with an adult! This is a basic form of the ancient game of **Nim**.



How do you play?

You'll need an adult to play with.

You will also need **seven objects**, such as counters or blocks.

Place the 7 objects in a pile and starting with the adult, take turns to take away either one or two objects.

The person who takes the last object wins.

Swap who goes first, and keep playing until you work out a winning strategy.

Does it matter who has the first turn?

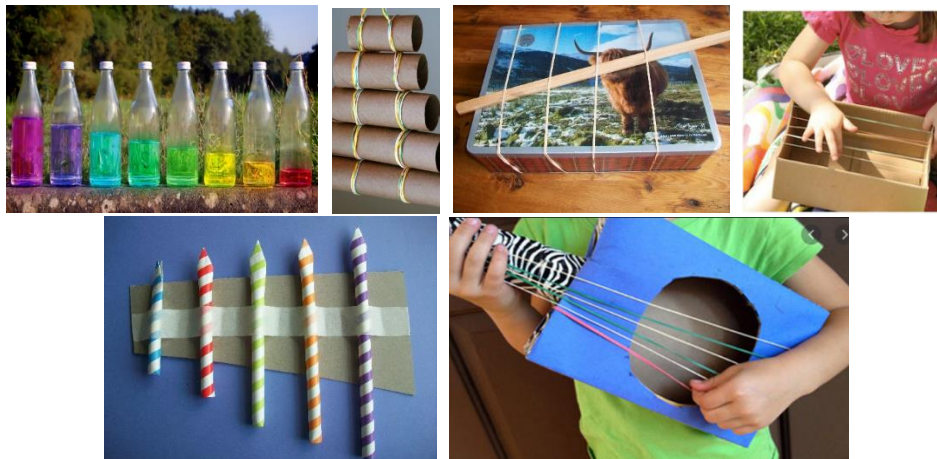
What happens when there are three objects left?

How can you win at this game?

What happens when you start the game with more objects?

Music/Science

Create musical instruments out of recycled household materials. You could use bottles, cardboard boxes, yogurt pots, elastic bands, string or anything else you can find. Can you invent an instrument that can play a tune? It will need a range of notes from high to low pitch. Here are a few ideas to help you get started.



Compose your own tune using your instrument. Can you write some lyrics for your tune?

History/Art

This is a portrait of Sir Francis Drake.

Find out when he lived and what he was famous for. Create your own version of the portrait of Sir Francis Drake. Look closely at the fine details. Can you use shading to show tone (lightness and darkness)?



Cardboard Tube Zebra

This has been an
"art jumpstart"
by Darrell Wakelam



... instructions on next photo

1 - Cut some cardboard tubes in half lengthways and fix one in the centre of a cardboard base.

2 - Cut slits in the back of this tube and pull it together to make it rounder.

3 - Use two more pieces of tube for the neck and the head and also snip out a 'V' shape for the mouth.

4 - Cut out three 'leaf shapes', two for the ears and a larger one for the tail... make the thinner part of the tail by winding up some of the tape.

5 - Make two legs to go on the 'hidden' side of the body.

6 - Then cut out two longer legs to go on the 'visible' side of the body. Cut a slit in the top to pull them into a 3D shape...

* Fold the base up to make it look more 3D...

7 - I've used the off-cuts to make a brow, a nostril, a mane and extra fur for the tail.

8 - Roll up an extra piece of tape for the eye.

9 - You can paint this or you glue the stripes on using black paper strips?

... then fix these on.

Cardboard Tube Zebra

This has been an
"art jumpstart"
by Darrell Wakelam



TRY SOME LAVA IN A CUP!

YOU WILL NEED:

- A clear drinking glass
- 1/4 cup vegetable oil
- 1 teaspoon salt
- Water
- Food coloring (optional)

WHAT TO DO

1. Fill the glass about 3/4 full of water.
2. Add about 5 drops of food coloring – I like red for the lava look.
3. Slowly pour the vegetable oil into the glass. See how the oil floats on top – cool huh? It gets better.
4. Now the fun part: Sprinkle the salt on top of the oil.

Watch blobs of lava move up and down in your glass!
If you liked that, add another teaspoon of salt to keep the effect going.



HOW DOES IT WORK?

So what's going on? Of course, it's not real lava but it does look a bit like a lava lamp your parents may have had. First of all, the oil floats on top of the water because it is lighter than the water. Since the salt is heavier than oil, it sinks down into the water and takes some oil with it, but then the salt dissolves and back up goes the oil! Pretty cool huh?



MAKE IT AN EXPERIMENT:

The project above is a DEMONSTRATION. To make it a true experiment, you can try to answer these questions:

1. How long will the effect go on if you keep adding salt?
2. Do different kinds of food oil give different effects?
3. Will other substances (sand, sugar. etc.) work the same as salt?
4. Does the height or shape of the glass affect the experiment?