



Autumn One Home Learning Year 6

English	Maths	Wider Curriculum	Experiences
Write a newspaper report based on the class book, <i>'The Rabbits.'</i> Your focus could be based on the invasion!	https://mathsbot.com/primary/ks2 Using the website above, practice your arithmetic skills!	Science Make a mini beast habitat. Can you keep track of all of the different living things that visit.	Make a tornado in a bottle.
Write an alternative ending to our class book, "The Rabbits."	Create a board game inspired by one of the following: 8 times table 9 times table 12 times table	Create a piece of artwork only using shapes.	Create a map of your route from home to school. Draw a detailed map, annotate well know landmarks and write down a set of directions using compass points.
Learn to perform a poem from memory.	Record the weight of different foods you find in the kitchen. Record them in kg. Are the smallest packets always the lightest?	Keep a moon diary. Observe and record (draw) the separate phases of the moon daily. What do you notice?	Go on a nature walk around your local park. Search for wildlife and plants. Make a list of the things you come across. You could hunt for edible plants or collect colourful leaves and make a nature inspired piece of art.

TORNADO IN A BOTTLE

SCIENCE
CHALLENGE

07

Designed by Adam,
Design engineer at Dyson

The brief

Create a water vortex in a bottle.

The method

1. Fill the plastic bottle with water until it reaches around three quarters full.
2. Add a few drops of washing up liquid.
3. Sprinkle in a few pinches of glitter (this will make your tornado easier to see).
4. Put the cap on tightly.
5. Turn the bottle upside down and hold it by the neck. Quickly spin the bottle in a circular motion for a few seconds. Stop and look inside to see if you can see a mini tornado forming in the water. You might need to try it a few times before you get it working properly.

Materials

Water
A clear plastic bottle
Glitter
Washing up liquid



How does it work?

The water is rapidly spinning around the centre of the vortex due to centripetal force. This is an inward force directing an object or fluid such as water towards the centre of its circular path.

Did you know?

Vortices found in nature include tornadoes, hurricanes and waterspouts.

