

| Creative   | Mathematical/Logical  | Physical  | Discussion  |
|--|---|---|---|
| <p style="text-align: center;"><b>Parachutes</b></p>  <p><i>Paper Cup Parachute</i></p> <p><b>Can you use a cup and a plastic bag to make a parachute?</b><br/>           Can you use your parachute to help a small toy fly safely?<br/>           What kind of plastic bag makes the best parachute?<br/>           How much weight can your parachute carry?</p> | <p style="text-align: center;"><b>National Sun Awareness Week</b><br/> <b>4th - 10th May 2020</b></p> <p>After applying sunscreen, you should wait 20 minutes before going outside.<br/>           How many seconds is this?</p> <p>Most sunscreens don't go out of date for approximately 2 years. How many months is this?</p> <p>Waterproof sunscreens lose some of their effectiveness after 40 minutes in the water.<br/>           What fraction of an hour is this?</p>  | <p style="text-align: center;"><b>Energy Transfer through Balls</b></p> <p>Energy is constantly changing forms and transferring between objects, try seeing for yourself how this works. Use two balls to transfer kinetic energy from the the big ball to the smaller one and see what happens.</p> <p><u>What you'll need:</u></p> <ul style="list-style-type: none"> <li>➤ A large, heavy ball such as a football</li> <li>➤ A smaller, light ball such as a tennis ball</li> </ul> <p><u>Instructions:</u></p> <ul style="list-style-type: none"> <li>• Make sure you're outside with plenty of room.</li> <li>• Carefully put the tennis ball on top of the basketball, holding one hand under the basketball and the other on top of the tennis ball.</li> <li>• Let go of both the balls at exactly the same time and observe what happens.</li> </ul> | <p>Ask these thinking questions to different people - there's no right or wrong answer just great conversations!</p> <p style="text-align: center;"><i>Why don't all rocks look the same?</i></p>  |

### Making Music with Water

Have you ever tried making music with glasses or bottles filled with water?

#### What you'll need:

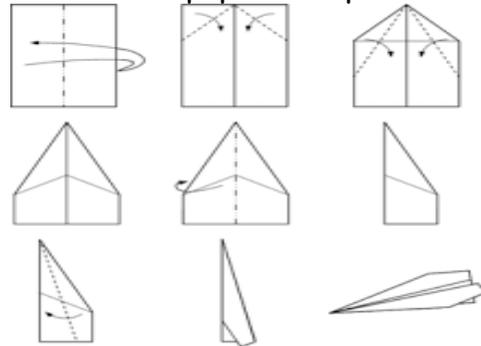
- 5 or more drinking glasses
- Water
- Wooden stick such as a pencil

#### Instructions:

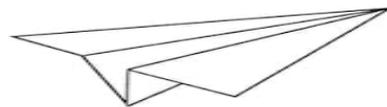
- Line the glasses up next to each other and fill them with different amounts of water. The first should have just a little water while the last should almost full, the ones in between should have slightly more than the last.
- Hit the glass with the least amount of water and observe the sound, then hit the glass with the most water, which makes the higher sound?
- Hit the other glasses and see what noise they make, see if you can get a tune going by hitting the glasses in a certain order.

### Let's Fly Away

Make a paper aeroplane.



How far can it fly?  
Can you measure the distance?  
What measurements could you use?  
(m, cm, steps, books, pencils etc)



Will the distance change if the aeroplane is a different size?

Tweet your findings 

### Test Your Dominant Side

Check out this cool experiment that will teach you more about how your body and brain work together. Test your dominant side by completing a series of challenges.

#### Instructions:

- Write 'left' or 'right' next to each task depending on what side you used/favoured.
- When you've finished all the challenges review your results and make your own conclusions about which is your dominant eye, hand and foot.

#### Eye tests:

1. Which eye do you use to wink?
2. Which eye do you use to look through the empty tube?

#### Hand/Arm tests:

1. Which hand do you use to write?
2. Pick up the cup of water, which hand did you use?
3. Throw the ball, which arm did you use?

#### Foot/Leg tests:

1. Run forward and jump off one leg, which did you jump off?
2. Drop the ball on the ground and kick it, which foot did you use?

How can you tell if something is a plant?



How are plants and animals different?  
Are all plants the same?  
What makes plants so special?

### Create Your Own Climbing Rainbow

Cut a strip of paper towel and on a short edge, use marker pens to make a strip of blocks in the colours of the rainbow. Let the markers dry.



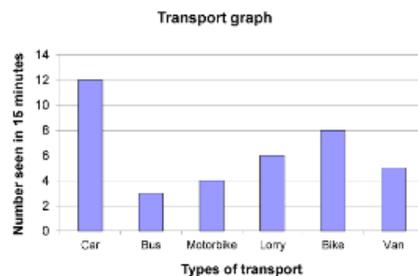
Put the coloured end in a dish then gently pour water into the bottom of the container. Watch what happens!



### What Transport?

Bar chart of vehicles passing the school

Below is a bar chart showing the vehicles that passed the school during a 15 minute period.



Watch how the numbers go up in twos! Work out where the odd numbers would be.

1. How many cars are shown on the graph?
2. How many buses passed the school?
3. How many more lorries than vans passed the school?
4. How many bikes and motorbikes were there, added together?
5. What was the total number of cars and lorries that passed the school?
6. What was the least common form of transport seen?

Can you create your own survey or investigation?

Eg.

- How many different coloured cars can you see?
- How many different types of transport can you spot?
- How many different coloured sweets in a pack?
- How many of a certain item can different members of your household pick up?

### How fast can you jump a mile?

- What parts of the body do we use to jump?
- Why is jumping harder than running?
- Why are some animals better at jumping than humans?



### What if we had more than two legs?

