



Marvellous Machines!

Learning Challenges Week Beginning 1st March 2021

In school, the children talked about electricity during our discussions about looking after the environment. This got us thinking about the ways in which we use electricity so this week's challenges are all about machines that we use at home. We will be thinking about machines and listening to stories about robots when we are back in school together so these activities will give you lots of ideas to use in our learning!

There are only four challenges to choose from this week. On Thursday, share some stories and join in with the World Book Day activities on the school website.

<p>We use machines all the time to help us with jobs. Many of these are powered by electricity. Some are plugged into a socket and others use batteries. With an adult, look around your house and find 3 machines that have a plug and 3 that use batteries. What are they used for?</p> <p>Extra challenge: Draw one of the machines and write what it is used for.</p>	<p>Have you ever seen machines being used on a building site to move heavy materials? Watch Grace's Amazing Machines (link below) to find out more about them.</p> <p>Extra challenge: Write down one of the facts that you learnt from Grace.</p>
<p>We use machines to travel long distances. Go for a walk or look out of your window and count how many different types of vehicles you see. Do they all travel on land? If you walk near the river you might spot vehicles that travel on water. Look in the air too.</p> <p>Extra challenge: Sort your vehicles into 'powered by a person' and 'powered by fuel'. You could print, cut and stick the pictures on the website.</p>	<p>Look in your toy box and find some toys that have moving parts. How do they move? Is there a motor inside that powers the moving part? Do you have to push a button or pull a lever? Tell someone at home what you have discovered. Remember to speak in full sentences.</p> <p>Extra challenge: Write an instruction label for the toy to explain how it works, e.g. pull the string.</p>

Useful links to look at with an adult.

Please be mindful of e-safety, particularly with Youtube links.

Grace's Amazing Building Machines:

<https://www.bbc.co.uk/iplayer/episode/m0009wnj/graces-amazing-machines-series-1-8-building-machines>