

Garden/home treasure hunt

Create a rainbow collage by collecting coloured materials from your garden or home.

www.stem.org.uk/rx33ho

Natural art

Collect a few leaves or petals from your garden. Place them between 2 pieces of paper or a piece of spare white material. Using a stone bash the leaves and petals through the paper. When you open up the paper or material what do you see?

Catch a rainbow

Pour some milk into a bowl and carefully put three drops of red colouring into one side. About a third of the way around put three drops of blue food colouring and another third of the way around put three drops of yellow food colouring. Do this very carefully, without moving the bowl, so that the three colours do not mix. Next squeeze a drop of washing up liquid into the centre of the bowl and record what you see.

www.stem.org.uk/rx33n2

Park Run at home

Measure the distance around your garden, yard or living room in cm. You can do this using a tape measure or if you don't have one a ruler. Convert the distance into metres. The distance of a Children's Park Run is 2km or 2000m. Can you work out how many laps around your garden or living room would be the same as a Park Run?

Growing plants from the things you throw away

Collect the seeds from the fruit that you eat. Including tomatoes and squash.

Do they all look the same? Plant them and observe how they grow.

www.stem.org.uk/rx32mj

Rocket mice

Cut a circle shape from a piece of paper and then cut it from one edge to the middle. Tape it into a cone and add some mouse features. Balance your cone mouse on top of an empty plastic bottle. Press down on each side of the bottle with some force and shoot your mouse into space. What makes a difference to how far your mouse travels?

www.stem.org.uk/rxetua

As if by magic!

When light travels from one material to another it bends. Draw a small arrow pointing left or right on a piece of paper. Fill a large, transparent glass with water. Hold the arrow behind the glass of water. What happens? Try this out with letters of the alphabet. Does it work with them all?

explorify.wellcome.ac.uk/

Changing shadows

Use an old cardboard box to cut out a shape of an animal, (anything you choose). Hold it in front of a light, like your bedside light or a torch. Is the shadow bigger or smaller than the cardboard animal? Try and make the biggest and smallest shadows that you can. How did you do this?

www.stem.org.uk/rxxxx

Parts of a flower

Ask your parents or carers if you can take a flower from the garden. Carefully dissect it. Can you name the different parts? Do you know what they do?

This booklet might help you .

<https://www.stem.org.uk/rx33qn>

Week beginning 27th April 2020

Tallest Tower

How can you make the tallest free standing tower from just one piece of A4 paper? You can use a pair of scissors, but no glue or tape is allowed.

<https://www.stem.org.uk/rxsrk>

Imagine what your life would be like without plastic

Write a story or create a comic strip for 'a life without plastic'.

Are all plastics the same? Do they all float

www.stem.org.uk/rx355t

Clucking chickens

Make an instrument that sounds like a chicken. You will need: tin can/ plastic cup, and some string.

Make a small hole in the base of a plastic cup. Thread string through the hole and knot it on the inside. Wet your fingers and run them down the string to produce a clucking noise

<https://bit.ly/3berawB>