

Easter Holiday STEM challenges!

Over the holidays we are challenging you to get scientific, technical and mathematical with our Easter STEM challenges. Have a look at these egg-citing challenges below and pick one to try out. On Friday 19th April we will be inviting parents/carers in from 2.30pm to 3.15pm for our eggs-xhibition to share all your wonderful challenges so have a think about how you will present your learning to others. You could use photos, graphs, models or even ICT to share your learning.

Here are some ideas for you to choose from or you can create your own egg challenge. We are so egg-cited to see your creativity in these challenges. Please bring them into school on or before Wednesday 17th April.

Plastic egg floating challenge

Try filling plastic eggs with different materials to see which floats and which sinks. Does the amount of material in them make any difference?

Challenge yourself to get your egg to sit half in the water and half out.

Melting Easter eggs

Watch the video in the link below to find out how chocolates are made through reversible changes. With help from a grown up, melt some of your own chocolate Easter eggs. Maybe use it to decorate the top of home made buns. Let them cool and set before taking a bite.

<https://www.stem.org.uk/rx33b2>

What's in the box?

Easter eggs come in packaging of all shapes and sizes. Can you create and decorate a net for a box to hold one of your Easter eggs? Carefully opening out one you already have may help give you some ideas.

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

DOWN THE EGG CHUTE

Find a large tube big enough to drop an egg down.

Investigate to find the best material to wrap the egg in to stop it breaking as it hits the ground.

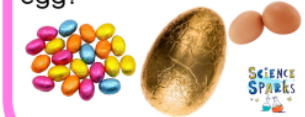
Another idea is to build a landing pad at the bottom of the tube to break the fall of the egg!



WHAT DO THEY WEIGH?

Find out how many eggs weigh the same as a chocolate egg?

Which is the heaviest? A real egg or chocolate egg?



Easter stained glass window

Cut out an egg shaped frame from black paper with some strips across the middle, joining the sides. Then stick tissue paper over the gaps. Put it in your window to let the light shine through. Identify which materials are opaque, transparent and translucent.

Look out below!

Create parachutes of different shapes, sizes or materials. Attach string to each of the corners of your parachute and then attach them to your chocolate egg. Which parachute creates the softest landing?

Transport an egg down the zip line

Try out this super Easter STEM challenge! Create a harness to take a chocolate egg, or if you're brave, a real egg, down a zip line.

<https://www.science-sparks.com/egg-stem-challenge/>

EGGY TOWERS

Use toothpicks or straws to build a tower strong enough to support the weight of an egg.

Plasticine, jelly sweets or even marshmallows are great for sticking everything together!



EGG SAILING

Build a boat from recycled materials such as foil, cardboard boxes, egg cartons or a plastic container.

Check the boat floats and test to see how many eggs it can hold without sinking.

