**STEM (Science, Technology, Engineering and Maths) Challenges**

**1st class challenges**

The first-class teachers have compiled a menu of STEM activities that can be carried out at home. These are not compulsory.

You may complete one or all the activities over the next few weeks. We’d love to see some pictures of your creations!

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| **Science**  -Use an empty egg box (or any container) as a treasure box to collect things from the garden. Can you collect lots of things of the same colour? What about different smells? How many different things can you collect?   * -Draw a picture of a big plate and then draw what you had for dinner last night. Find out what type of foods you ate for your meal. E.g. dairy product, protein, carbohydrate. Can you find out why your body needs these types of food. * -Floating and sinking- gather recyclable materials that would be suitable to make a boat next week | **Technology**  **-**[**www.code.org**](http://www.code.org)Try an hour of code. Code a dance party featuring music by Katy Perry, Shawn Mendes and more. Use your creativity and problem-solving skills to journey and explore new worlds in Minecraft. And many more tutorials.  -Think of all the things we use technology for in our homes  -Draw a gadget that will allow you to give a hug to someone from a distance  -Draw a robot that you can programme to do three (or more) things for you. Explain why you choose those three things |
| **Engineering**  -Make the longest, trickiest marble run using cardboard and toilet/kitchen roll inserts  -Make the tallest tower possible from 2 sheets of newspaper and 30cm of tape  -Build the tallest tower using paper/plastic cups  -Make a paper plate marble maze  -Make a paper aeroplane and see how far it flies  -Draw magic sweets and draw or write about what happens if you eat them  -Imagine a secret door in your home that leads to a magical place. Draw the door and the place. | **Maths**   * -Measuring baking ingredients. * You could make a brownie in a mug! <https://www.bbcgoodfood.com/recipes/microwave-mug-cake> * -Developing maths skills by making shapes with Play-Doh * -Go on a shape hunt. Find 5 different 3D shapes in your house (cube, cuboid, cylinder, sphere and cone). You can draw or take a picture of everything you gathered! * -Measure how tall you are * -See how many jumping jacks you can do in 1minute * -Think of five places where you can find numbers in your home * -Do a number bond challenge every day this week. Make sure you time it and see yourself getting faster every day! <https://www.twinkl.ie/resource/t-n-45417-number-bond-challenge-activity-sheet> |