

**How Do I Take Part?**

**Step 1**- Find the plans and resources on the school website. (You have already done this!)

**Step 2**: Select an activity from the list below.

**Step 3**- Follow the link, watch the video, and/or read the instructions.

**Step 4**- Complete the scientific activity with the support and guidance of an adult.

**Step 5**- Record how many ‘Science Week Electrons’ you have earned.

**2 Electron Activities:**

Each time you complete one of these activities, you can add 2 ‘Science Week Electrons’ to your total. Instructions for each activity can be found using the following link or in the documents attached to the bottom of this page.

<https://www.stem.org.uk/resources/elibrary/resource/25416/do-try-home#&gid=undefined&pid=2>

* Straw gun
* Can You Balance The Stick
* Making a Moving Foil Boat
* Sew an Ice Cube
* Spot a Raw Egg from a Cooked One

**3 Electron Activities:**

Each time you complete one of these activities, you can add 3 ‘Science Week Electrons’ to your total. A video and instructions for each activity can be found by following the relevant links. Instructions for each activity are attached to the bottom of this page.

* Rubber Band Cannons

<https://www.rigb.org/families/experimental/rubber-band-cannons>

* Homemade Parachutes

<https://www.rigb.org/families/experimental/homemade-parachutes>

* Fizzy Cubes

<https://www.rigb.org/families/experimental/fizzy-cubes>

* Candle Chemistry

<https://www.rigb.org/families/experimental/candle-chemistry>

* Balancing Structures

<https://www.rigb.org/families/experimental/balancing-structures>

**4 Electron Activities:**

Each time you complete one of the BIG QUESTIONS, you can add 4 ‘Science Week Electrons’ to your total.

* BIG Question (A) – How tall are the people in your family? Is there a link between how old you are and how tall you are? Is that the same all the way through your life?
* BIG Question (B) – Can you measure your heart rate while you are resting? How does it change if you exercise? Why is that?
* BIG Question (C) – How is NASA finding out about Mars? How has the Corona virus made it more difficult?
* BIG Question (D) – What is a mutation? What does that have to do with Covid -19?

**5 Electron Activities:**

Do some research on floating and sinking. The BBC Bitesize sight is a good starting point:

<https://www.bbc.co.uk/bitesize/topics/zc89k7h>

Watch the video of Mr M modelling how to complete a ‘Fair Test’. Read Mr M’ modelled examples of a prediction, conclusion and evaluation. Look at the success criteria outlined in the ‘Scientific Writing Expectations’ document.

If you can complete and write up your own fair test, you can add 5 ‘Science Week Electrons’ to your total. Here are some possible questions to investigate:

* Does the weight on an object affect how well it floats?
* Does the size of an object affect how well it floats?
* Does the type of liquid affect how well an object floats?
* Does the container the water is held in affect how well an object floats?

**How do I get my certificate?**

Don’t forget to count up how many ‘Science Week Electrons’ you have earned in total. Send this information to Mr Mackinnon: beech@st-barnabas.kent.sch.uk and we will organise your Stay at Home Science Week Certificate.

The closing date for entries is Tuesday 2nd June.

**EXTRA CHALLENGE:**

How do you think Mr M is going to use the number of electrons you have earned to work out which certificate you get? Can you predict which certificate you will receive before it even arrives.

**CLUE:** Mr Mackinnon is going to use a tool called the Periodic Table to help him.