



SCIENCE NEWS @ LADY B'S

Sadly, due to its postponement, I am not able to share all the photos of the fun-filled Science Week that we had planned for April 2020. However, as so many of you have been sharing the fantastic science learning that you've been completing as part of virtual school, as well as additional science activities that you've been exploring at home, we still have so much science to share and celebrate!

Virtual School Science Work - (just some of many examples!)

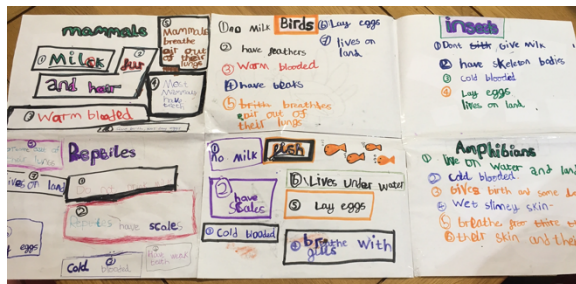


^ Matthew O creating a model of blood and its components while learning about the circulatory system.



< Chloe A's habitat diorama of Antarctica!

Charlie H's poster about the classification of animals v



LO: To identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat.
 WJLCO: To sort and classify.
 WJLCO: To use scientific vocabulary within verbal and written explanations.

How do plants, animals and humans get their food?
 Plants use water sunlight and carbon dioxide to make food. This is called photosynthesis. Animals get their food by hunting other animals or eating plants.

Humans buy their food from shops or grow their own fruit and veg.

Carbohydrates
 Give you energy
 Examples: bread, pasta, rice, potatoes, sugar, butter

Protein
 Helps your body grow and repair itself
 Examples: meat, fish, eggs, milk, cheese, soy

Fats
 Give you long lasting energy
 Examples: butter, oil, cheese, chocolate

Vitamins
 Keeps your body healthy
 Examples: carrots, oranges, grapes, kiwi

Minerals
 A lot keeps your body healthy
 Examples: sweetcorn, salt

Water
 Water helps move nutrients and gets rid of waste
 Examples: strawberries, tomatoes

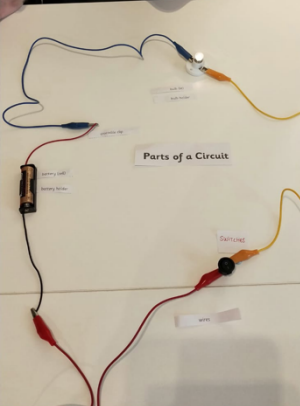
Fibre
 Fibre helps digest food
 Examples: apple, banana



< Jessica VK's work on electrical circuits and Kai B's work on switches! v



^ Elijah L's research project presentation on Saturn.



Draw a diagram of a working circuit with the switch turned on.

Draw a diagram of a working circuit with the switch turned off.

Fill in the gaps using the word bank below:
 A circuit always needs a power source, such as a cell/battery with wires connected to both the positive (+) and negative (-) ends. A battery is also known as a cell.

A circuit can also contain other electrical components, such as bulbs, resistors or switches which allow electricity to pass through.

Electricity will only travel around a circuit that is complete. That means it has no gaps.

When a switch is open (off), there is a gap in the circuit. Electricity cannot travel around the circuit.

When a switch is closed (on), it makes the circuit complete. Electricity can travel around the circuit.

power cell cannot complete open power positive can negative components buzzers motors no closed



^ Edward L-N's learning on the different types of nutrients.



^ Henry S identifying different trees by their leaves

Melba's learning about different skeleton types v

Call out and stick the animals based on the type of skeleton they have

Endoskeleton	Exoskeleton	Hydrostatic Skeleton
Human, elephant, bear, zebra, snake, frog, butterfly, worm	turtle, grasshopper, grasshopper, grasshopper, grasshopper	earthworm, slug, slug, slug

What other animals have endoskeletons? cats, dogs, polar bears and monkeys.
 What other animals have exoskeletons? scorpions, crabs.
 What other animals have hydrostatic skeletons? centipede.

Agatha J identifying and tallying different wild plants >



< Beatrice recording plant growth on a block chart.

Look carefully for these wild plants. Each time you see one, make a mark in the table.

Wild Plant	Tally	Number
Dandelion		50
Daisy		56
Buttercup		30
Clover		20
Nettle		67
Bramble		15
Dog Rose		0
Ivy		25

Science Ambassadors' Quiz!

Last term, some of our science ambassadors worked incredibly hard to create and prepare a science quiz, ready to launch on Day 1 of Science Week.

Although the Science Ambassadors weren't able to launch it as planned, we'd still love for everyone to be able to take part and for all their hard work to be recognised and appreciated.

The Science Ambassadors' Quiz: 'ALL ABOUT ANIMALS'

has been uploaded onto the **whole school area** on **KLZ**. Do take a look and have a go!



The answers have also been uploaded so that you can check to see if you were correct!
A **BIG THANK YOU** goes to the Science Ambassadors involved, who spent a lot of time preparing the quiz for everyone!

Science Virtual Learning resources...

Below, I have listed a few excellent websites/online providers that are offering resources to help support science learning at home:

Science Buddies:

www.sciencebuddies.org/blog/category/doing-science-at-home

The STEM Hub:

www.thestemhub.org.uk/index.php/stem-at-home



Science Sparks and Primary Science Teaching Trust:

www.pstt.org.uk/resources/curriculum-materials/Science-Fun-at-Home

SCIENCE FUN AT HOME



Have some fun at home with these science activities from Science Sparks and the Primary Science Teaching Trust



BP:

<https://bpes.bp.com/resources/list/primary>

Investigation suggestion...

LAVA LAMPS!

ALWAYS ask an adult to help you!



You will need:

- Water
- A clear, plastic bottle
- Vegetable Oil
- Food Colouring
- Vitamin C tablets (or other effervescent tablets)

Method:

- 1) Fill a plastic bottle with water until it's approximately $\frac{1}{4}$ full.
- 2) Add vegetable oil to the water until the bottle is $\frac{7}{8}$ full.
- 3) Wait for the oil and water to separate.
- 4) Add food colouring to the bottle (you can also add glitter if you like!)
- 5) Watch the food colouring mix with the water as it falls through the oil.
- 6) Break a Vitamin C tablet into small pieces and add to the bottle.
- 7) When the bubbling finishes, add another piece of tablet.

Time to investigate!

- What happens when you change the amount of tablet?
- What happens if you change the temperature of the water?
- Will the Vitamin C tablet react in oil?
- What happens when you use different liquids? (lemon juice/vinegar/sparkling water?)

Reach Out Reporter

Remember to keep watching 'Reach Out Reporter's - Weekly News Updates' to keep up to date with science news around the world!

News update

30/04/2020

On this week's update: a whale's-eye view of the world, a new theory about volcanoes, and virtual reality you can feel!

There's also a huge number of other informative clips to explore and enjoy!

www.reachoutreporter.com

Ambassadors @ Work!

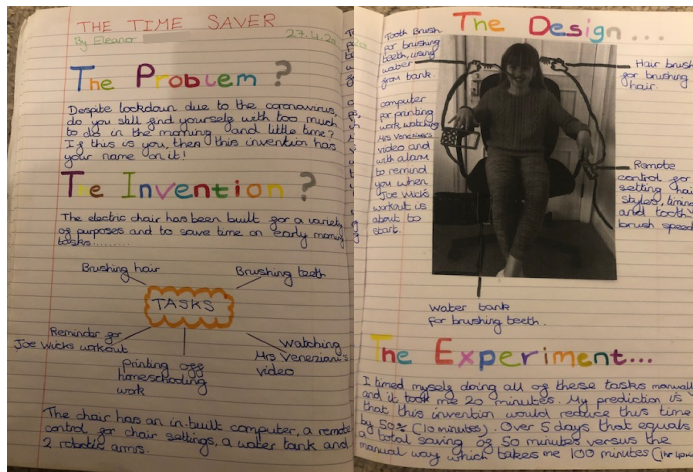
To demonstrate the diversity of STEM roles/careers available, registered STEM Ambassadors have created videos and shared lots of information about their roles and the many different routes into each career!

Take a look and see if there's a role that inspires you and how you could get there!

www.thestemhub.org.uk/index.php/ambassadors-at-work/ambassador-profiles

Virtual Science Selfie entries!

Well done to all of you who have completed your 'science selfie invention' entries! Here are some entries that have been sent in while we've been learning virtually - and what brilliant entries they are!



^ Eleanor S's 'Time Saver' Invention

Green Tooth

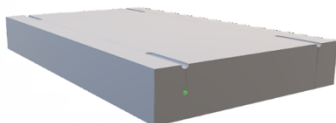
Science Selfie
Invention Edition

By Benji



In our house there are wires everywhere! Behind the TV we have about 20 wires connecting the internet, sky, TV, PS4 and other electrical boxes. I want to invent a power bank that will be plugged in and works like Bluetooth to power all the electrical items in that area.

Introducing the Green Tooth:



- > The Green Tooth is plugged in using only one wire and provides power to all the electronic devices within a metre of it.
- > It uses rays similar to Bluetooth to charge up the devices.
- > You will need to buy new electronics that are suitable to use with the Green Tooth.

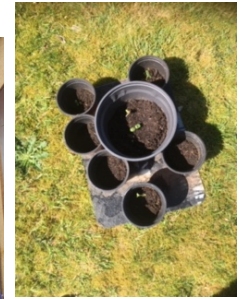
^ Benji R's 'Green Tooth' Invention

Getting green fingers!

It's been fantastic to see lots of you enjoying some gardening and growing lots of new plants whilst at home!



^ Isabella L has planted a range of different seeds and is making sure they stay healthy!



^ Aurelia B has planted lots of seeds.



Agatha J doing a spot of gardening! v

< Joel is enjoying watching his plants grow nice and tall!



^ Scott and Rosie preparing the flower bed with soil/compost.

The School Fish!



The KS1 and KS2 fish have pooled together and are home schooling with Mrs Veneziani and her family! Their Virtual School timetable is as follows:

9.00-10.00 am	Maths—place value
10.00-10.30am	Grammar - the in-fin-itive
10.30-11.00am	Computing - phishing emails and how to avoid them
11.00-midday	Art - watercolours
Midday-12.30pm	Music - scales and "name that tuna"
1.20-2.20pm	Science - bones and mussels
2.20-3.20pm	PE - swimming!

Science fun at home! It's been great to see lots of you completing 'extra' science at home - some of you have even made links to your humanities topics!



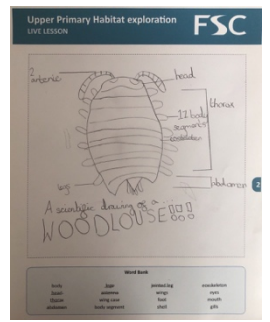
^ Holly and Curtis have made citrus circuits!



^ James H-B learning all about the planets!



Georgia took part in a live outdoor lesson and learnt how to scientifically draw an invertebrate >



Toby, Zach and Charlotte D all observed the full lifecycle of a butterfly! They very much enjoyed watching them develop from chrysalises and seeing them fly free! v



^ Zach used Oreos to explore the different phases!

Anna M enjoyed drawing the solar system! >

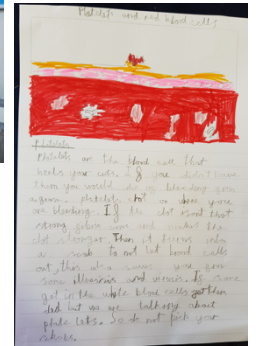


< Holly completed a switched-on safety quiz on electricity!

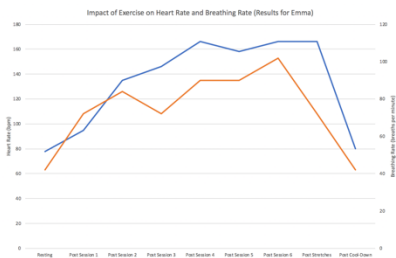
Benedict researched red blood cells and platelets v



^ Tristan had fun creating an exploding volcano!



Even more Virtual School Science Work!



^ Emma's line graph to show how heart rate and breathing rate is affected by exercise

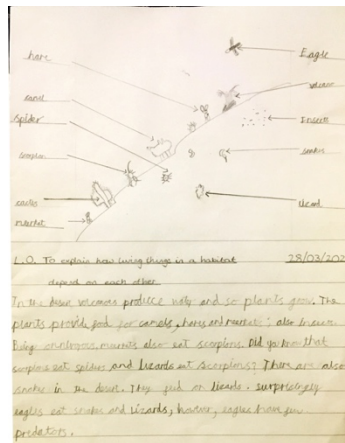
Charlie H's > learning about carnivores, herbivores and omnivores



Isabella L identified lots of plants in her garden! >

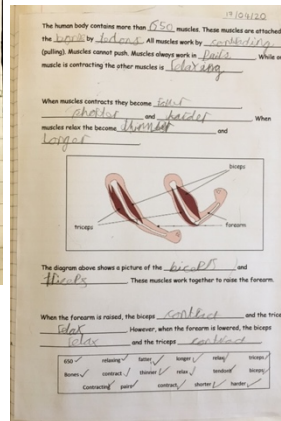


Myla created an ocean habitat food chain v



^ Jasper explored the dependency of animals and plants in the desert

Isaac's learning on how muscles create movement v



Vince R-W completing an investigation on how exercise affects the human body v



What a fantastic amount of science there is to celebrate! Well done everyone - keep up the good work, keep exploring and keep having fun! Please keep sending in all the science you're doing at home; I'd love to hear all about it! Stay safe everyone. Miss Johnson