



# SCIENCE NEWS @ AVANTI HOUSE PRIMARY SCHOOL

Welcome to our very first Science Newsletter. At Avanti House Primary School, we pursue a broad and balanced Science curriculum that incorporates practical and outdoor experiences and promotes academic success, personal reflection, growth and the development of a social conscience. We emphasise independent thought to enable all our pupils to become reflective, articulate, and independent thinkers and lay foundations for future learning. This termly newsletter, will be a celebration of all science learning at Avanti House Primary School.

The COVID 19 lockdown has not stopped learning at Avanti House. Some recent examples of Science at home by our lovely children.

Khian from Reception Ladybirds, has made a rainbow using coloured water and kitchen towel.



Prapti Neupane from Reception Busybees, made her drawings float using the float a marker man experiment.



Bella (1DD) used her time during lockdown to revise her understanding of materials! She engaged in an experiment to see what would happen if she poked pencils through a plastic bag filled with water.



Srihan from 1TT planted seeds as a part of our science learning. Good idea for creating pattern in your garden.



Veer Ganesh, 2FF and Aarav 2PP, have been sorting different leaves and investigating what happens to leaves when they are left in water for some time. They observed bubbles coming out of the leaf showing that the leaf is letting out oxygen. This process is called plant respiration.





Leeya, 2PP, Yamune 2FF and Riyana Shah 2FF, have given some tips to stay healthy during lockdown. Keeping a routine, exercising, eating healthy, washing hands, calling friends on zoom and keeping your brain active is the key to staying happy during these times. To see their full presentations, please go to our website, under Science.



**Healthy Mind**

These are the main points you have to follow for your healthy mind:

- ✦ THINK POSITIVE
- ✦ READ BOOKS
- ✦ DON'T WATCH TOO MUCH OF TV AND DON'T STAY ON MOBILE PHONES
- ✦ DO PRAYER
- ✦ TALK TO PEOPLE YOU LOVE
- ✦ FOLLOW YOUR HOBBY

**Healthy Body**

Not only healthy eating is important, but also exercise and keeping healthy habits for your body is equally important:

- ✦ EXERCISE 60 MINUTES A DAY
- ✦ DON'T SMOKE
- ✦ BE ACTIVE ALL THE TIME
- ✦ DON'T EAT TOO MUCH SUGAR
- ✦ HAVE A GOOD SLEEP

YOU CAN DO EXERCISES LIKE:

- ✦ RUNNING, JUMPING
- ✦ WALKING, CYCLING
- ✦ SCOOTERING, PUSH-UP




Year 3 have been learning about forces and have balanced the forces on a mobile. Tanay Rajput, 3GG, has described the forces used in everyday life. While, Sajni, 3GG, has described the science behind magnets and their magnetic fields. Have a look on our website to see what they have been learning.



Niam 3GG



Sienna Raniga 3GG



Dia Rathod 3GG



Saanvi Patel 3KK



Vidya Joshi 3KK

Year 4 have been learning about electricity and were asked to take part in 3 science experiments at home to learn more about static electricity. Children then made observations, conclusions and described the science behind it all. Here is an example of their excellent work! To know more about their wonderful work, have a look on our website.



Shivani Natha 4HH



I made a circuit and tested objects to see which ones would complete it and which wouldn't. I concluded that anything that is metal will let electricity pass through it but if it is not metal then it won't for example cotton wool in the first picture.

Shiv Patel Year 4 HH

Year 5 have been learning about DNA and have made edible model of DNA's. They have also made presentations describing the DNA in detail. Have a look at some of their amazing work.

DNA also known for Deoxyribonucleic acid is a molecule and is a class of atoms formed to make a spiralling ladder. DNA performs as a blueprint or a recipe for a living organism.

Amino acids are little chemicals that are important and they are inside our bodies. There are non-identical variety's of amino acids such as aspartic acids, glutamic acids and proline acids followed on by many more. They are attached to each other and they form particles called proteins

Here below shows a picture of proteins combined to make living cells and the living cells create tissues and tissues assemble organs.



Vidhi 5 SS

There are steps of a ladder with letters on it, made up of four different kinds of chemicals. There are lots of letters on a ladder and it carries on it lives inside a nucleus. This is a picture above to show you the ladder.

Each amino acid has to structure the right shape otherwise it will not work. DNA tells the amino acids how to construct the shape and the size.

There is something called a ribosome (shown above). A ribosome is like a code breaker. It gets the letters at a time and creates a protein. It sticks the amino acids and the protein sticks together to form the right shape.

Arya 5 SS



Freya 5 SS

## Science Ambassador Quiz

Our Science Ambassadors have been very busy behind the scenes and worked incredibly hard to create and prepare a science quiz.

We would love for everyone to take part in this Quiz and for all their hard work to be recognised and appreciated.

### **The Science Ambassador Quiz**

It has been uploaded on the website on our science page. Do take a look and have a go!



The answers have also been uploaded so that you can check to see if you are correct! A big thank you goes to the children involved, who spent a lot of time preparing the quiz for everyone!

## Science Virtual Learning resources

These are a few excellent websites that could be of help for supporting science learning at home.

Tree identification app for phones

<https://www.woodlandtrust.org.uk/trees-woods-and-wildlife/british-trees/tree-id-app/>

Science resources from museums

<https://learning.sciencemuseumgroup.org.uk/learning-resources/>

<https://www.rmg.co.uk/schools-communities/learning-resources/learning-from-home>

<https://www.nhm.ac.uk/schools/teaching-resources.html>

<https://learning.sciencemuseumgroup.org.uk/resources/?type=at-home>

**ADULT  
SUPERVISION  
REQUIRED**

## Investigation Suggestion:

Have you ever wanted to make a chemical reaction? Now you can! Follow the instructions below to make your own fizzy reaction. You could even make your own volcano out of craft materials first and then make it explode to look like a real volcano!

### What you will need:

Baking soda, washing up liquid, red food colouring, vinegar, 2 cups, a container to hold everything and avoid a big mess, paper towels or a cloth (just in case)

### Instructions:

1. Place 2 teaspoons of baking soda into one of the cups. Place the cup into the container.
2. Add a few drops of red food colouring.
3. Add a squirt of washing up liquid.
4. Pour some vinegar (about 2 tablespoons) in another cup.
5. Pour the vinegar into the first cup.
6. Stand back and watch the reaction happen!

### What's happening:

The baking soda reacts with the vinegar which is an acid. When they react together they break apart into water and carbon dioxide, which creates all the fizzing. The washing up liquid just adds more bubbles and the red food colouring makes it look more like lava!

ReachOut  
Reporter

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