

KS3 Science Club

The purpose of science club is to promote interest, understanding, and knowledge of the scientific world and the environment, through experiments, exploration and hands on fun.

Science club meets each Wednesday lunchtime in room S9 with Miss Davidson from 1:20 pm – 2 pm (bring your lunch with you).

So far we have explored:



Week 1: Agar Plates

On Thursday lunchtime the students printed their dirty hands and clean hands onto an agar plate. After being placed in the autoclave we determine the types of microorganisms found in our body and discussed why dirty and clean hands differed in their results.

Week 2: Microscopes

Students investigated organisms found in pond water and weeds by preparing and viewing them under a microscope. The students really enjoyed discovering the large variety of organisms including flies, algae, worms and bacteria .

Week 3: Bubbletastic!

Students used washing up liquid and water to create a bubbletastic experiment. They were tasked with determining how many bubbles they can create inside another bubble. Our record was 5!

Week 4: Fantastical Flames:

Students investigated the flame colours of different metals using a Bunsen burner. The students placed each solution on a splint and held them in the roaring blue flame to see the fantastical colours they could unleash. The pupils really enjoyed the activity.

Week 5: T-Shirt Chromatography:

During the lunchtime Science club today, students undertook t-shirt paper chromatography. The students placed ink on multiple sections of a t-shirt, creating a colourful, lovely design. Using water, they allowed the ink to absorb and travel up the paper to separate the mixture. This is part of the separating mixtures unit in year 7, but with an added twist.



Week 6: Snowflake extravaganza!

Students used filter paper to design their own snowflakes by the use of different colours. Overnight they were kept in salt solution and with the use of magic (potassium hexacyanoferrate (II)) our crystals formed beautifully. Look at the amazing results below

Week 7: The Domino Effect:

On Wednesday lunchtime the students were tasked with, using dominoes, to create the biggest chain reaction they could. The purpose of this was to show the students that one event can cause a chain of further events occurring, this has direct implications in chemistry, ecology and even nuclear fission. We also discussed that Dominos when they are upright, have maximum potential energy, once falling, the force of gravity turns this energy into kinetic energy.

Week 8: Bath Bombs

This week we explored bath bombs, we used lavender and tea-tree oil to form our

The chemistry behind their work:

When you drop your bath bomb into water, this sets off a chemical reaction between the citric acid and the bicarbonate of soda. During the reaction, carbon dioxide is made, which causes the fizzing. The tea tree oil or lavender moisturises your skin and the essential oils smell nice.



Week 9: Fire writing, reveal the invisible message

On Wednesday lunchtime the students spent time investigating the process of fire writing. Using invisible ink they wrote their messages before touching a flame to the edge of the writing. This caused it to burn away in a smoldering flame. The paper is left untouched, except for the fire writing.

Week 10: What really gets your blood pumping this Valentine's day?

In the spirit of Valentine's day, students were tasked with dissecting a lamb's heart. By studying the lamb's anatomy, the students were able to learn how our own hearts beat and pump blood through our bodies, thereby keeping us alive!

Planned experiments for this term:

Week 4: Messy volcano – Design and make a volcano that will erupt! Can you use your knowledge of chemical reactions to help you in your design? Can you make the biggest eruption?

Week 5: Alien Blood – Can you make slimy alien blood and explain its properties?

Week 6: Disappearing worms – Can you make you form and move your worms causing them to disappear?