

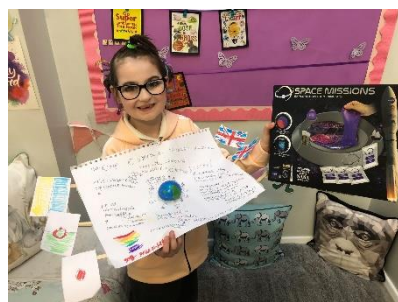
Science Governors Report

July 2023

What a busy year it has been for the Science Curriculum! We have continued to amend our Science planning for all year groups. We have looked at each year group's planning in great detail and ensured that every lesson is purposeful and well resourced. We have focussed on improving Science shared reads across the school. We have spent the year embedding this into every lesson for every year group. We have ensured that the shared reads are diverse and specific to the subject being taught and include key vocabulary. We also have updated the 'Knowledge Organisers' for each topic for every year group. We have ensured that they include key knowledge that is closely linked to the national curriculum, we have also included key vocabulary and short memorable definitions. We have also ensured that the Knowledge Organisers include information about significant people linked to the specific topic.

Science Week 2023

The theme for Science Week this year was 'connections'. The children were given the opportunity to enter a whole school competition, this involved designing an imaginative poster based on the theme for the year. Children could choose from a number of topics e.g. how body parts are connected, how atoms connect or bond to make up our surroundings, the connection between human actions and climate change etc. A KS1 and KS2 winner were chosen and were awarded a Science experiment kit and certificate.



We carried out a number of hands-on activities to celebrate the week. Year 1 and 2 created their very own fireworks in a jar. The experiment involved mixing food colouring, oil and water. The children learnt that food colouring is denser than oil and that gravity eventually takes effect and the food colouring falls to the bottom of the jar- the end result was an impressive firework display. Year 3 and 4 enjoyed creating their very own chromatography flowers by separating ink in marker pens using water and filter paper. They designed their own patterns before submerging them in water. The children were able to observe the water move upwards, along with the different colours in the marker pen. Year 5 and 6 enjoyed creating their very own rockets using straws and paper templates. They learnt all about propulsion in the process. They were then able to compete against each other to see whose rocket would fly the furthest and also given the opportunity to improve their design.



Science Club

This year the Year 3 and 4 children had the opportunity to attend a Science after school club. It was a six week club held every Wednesday by Mrs Griffith. The children carried out a different experiment each week. The children especially enjoyed; making their very own slime to take home, creating a self-inflating 'Grinch heart', making elephant's toothpaste and creating an explosion using Mentos and coke.



Curriculum Coverage

Our youngest children in Foundation One have enjoyed investigating how they can help their nursery rhyme friends. They investigated how they can help Humpty Dumpty to stop him from cracking if he falls off the wall again. They also enjoyed learning about the lifecycle of a caterpillar.



Foundation Two children had the opportunity to plant seeds and bulbs and watch them grow. They watered them daily and measured their growth. They also enjoyed spending a lot of time in the outdoor classroom noticing the changes to the trees.



The fun has continued in Year 1, the children investigated their five senses as part of their 'Animals, Including Humans' topic. They investigated their sense of smell with a smelly socks investigation (socks containing different food). They also enjoyed comparing different materials and describing their properties.



Year 2 began the year looking at the different properties of materials and the scientific vocabulary used to describe them. They also enjoyed learning about what humans and animals need to survive and the importance of looking after our bodies.



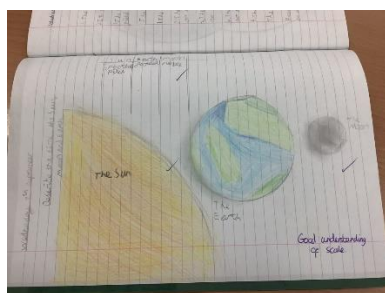
Year 3 began the year learning all about healthy eating and the five different food groups. They learnt all about how our muscles work and the names of the bones in our body. The children have also revised the Forces topic from Year 2 and investigated further about how gravity works and how friction affects movement. The children especially enjoyed the 'Plants' topic and enjoyed making their own class terrarium.



Year 4 enjoyed learning about teeth and how we need to look after our teeth. They completed an investigation to look at tooth decay. They also found out about different components in a circuit and created simple circuits in their 'Electricity' topic. The children also learnt how to use classification keys to group living things in their 'Living Things and their Habitats' topic.



Year 5 learn about the wonders of 'Space'. They gained an understanding of the Earth's rotation and how it moves through space. The children also explored reversible and irreversible changes and compared and grouped together everyday materials based on their properties.



Year 6 started the year learning about electricity. They recapped the knowledge from their Year 4 topic and then began looking at how the number of cells within a circuit can affect other components. The children also enjoyed studying fossils, they looked for clues about the creatures that created them. They also learnt about character traits that have been inherited from relatives.



CPD

CPD (Continuing Professional Development) involved the Wirral Science Conference at Eureka, this is a new facility on the Wirral that we will utilise in the future. The Science team also participated in 'Talk for Science' training, a staff meeting was then held to feedback to teachers. School Improvement Liverpool have continued to provide training for the Science team

End of Year Results

End of Year Data July 2022			
	% below expectation	% At expectation	% Above expectation
Year 1	12%	82%	6%
Year 2	17%	63%	15%
Year 3	25 %	52%	23 %
Year 4	15%	74%	11%
Year 5	10%	84%	7%
Year 6	17%	63%	21%

Mrs S Griffith (Science Coordinator)