

Science Day – Monday 17th May 2021

Throughout the day, every class had a particular focus on an aspect of Science. This related to our topic this year that was 'Innovations for the Future'. Each class developed their understanding of an area of Science and learnt about it during the day in different fun and exciting ways. This presentation will share the ways that the different classes completed this.

Reception

For Science day in Robins class the children had the opportunity to celebrate Forest Schools. We had a forest school day. The weather was a little unpredictable, but this did not deter us at all. Our theme for the day was Earth, Wind and Fire. The children had many independent opportunities to explore and play such as deconstructed role-play, tuff spot bubble blowing, den building, digging, gardening, chalk mark making, using magnifying glasses and imaginative play outside. During the guided sessions, the children created their own mini windmill and tested it out in the air. They also created their own Springtime earth cards: the children had to collect many natural objects linked to the season Spring. The highlight of our day was experiencing a forest school fire. The children observed as Mrs Norris set up the fire, and then we were able to feed the fire with some dry sticks. The rain began to pour down, so we decided to warm up inside by enjoying some chocolate milk and marshmallows while watching some clips from David Attenborough. We talked about the animals and some ideas for how we can help save our planet.

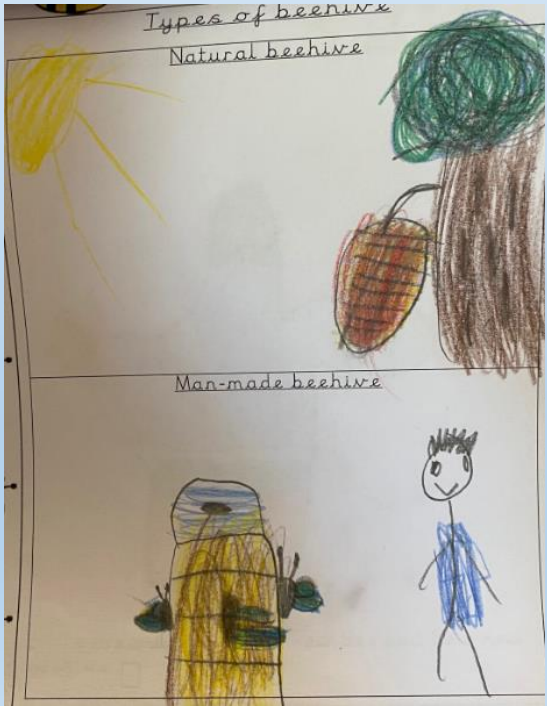
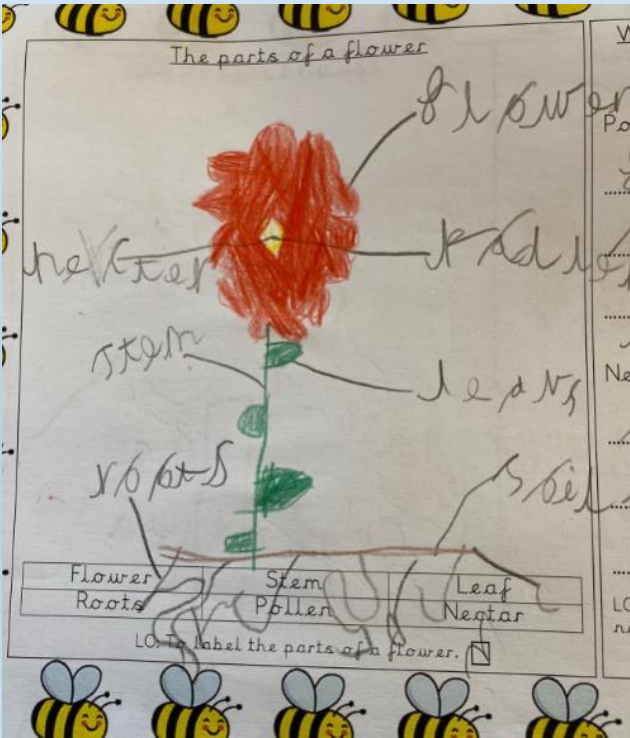
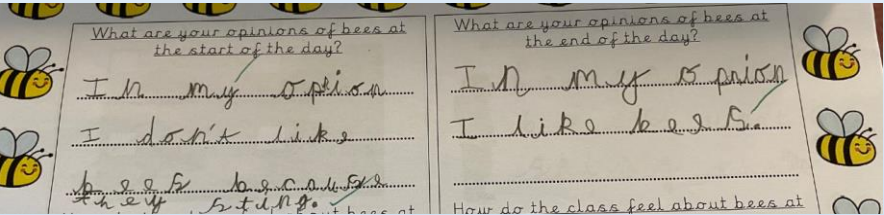
Reception



Year 1

We had lots of fun learning about the honey bee. The day started with a special visit on Zoom from Paul the honey bee (our Chair of Governors) and his friend Stuart. They told us all about their honey bees and how they care for them, as well as telling us all about hives and how the honey bee makes honey. Later in the day we learnt about Lorenzo Langstroth who invented the modern beehive and looked at the difference between natural and man-made beehives. We then designed our own beekeeper suits and hives. Everyone had lots of fun using their senses to explore honey and some of us were very surprised when we realised we liked the taste! We labelled the parts of a flower and thought about why honey bees need nectar and pollen from flowers. We finished our day by thinking about how honey bees help us and then we all made a pledge about how we could help the honey bees and this became our homework challenge for the week. At the start of the day we collected everyone's opinions about honey bees and whether children liked them or were scared of them. It was wonderful to see that fewer children were frightened of them by the end of the day.

Year 1



Year 2

On Science day, we began our day by thinking about the different jobs that scientists do. We looked at the different skills that a scientist needed to complete certain jobs. When we had looked at the different jobs that involve scientists, we looked at the different types of people that were scientists. We realised that we all had a similar view that scientists were men in white coats with test tubes. We soon realised that scientists aren't just men in white coats, but they're a huge variety of people.

Later on, we looked at the invention of the camera. We looked closely at the different cameras throughout history up to the cameras we use today. We had the chance to look at cameras that needed a film loaded into it to be able to take photos.

We completed the day by making our own pinhole camera to see the basics of how a camera works.

Year 2



Year 3

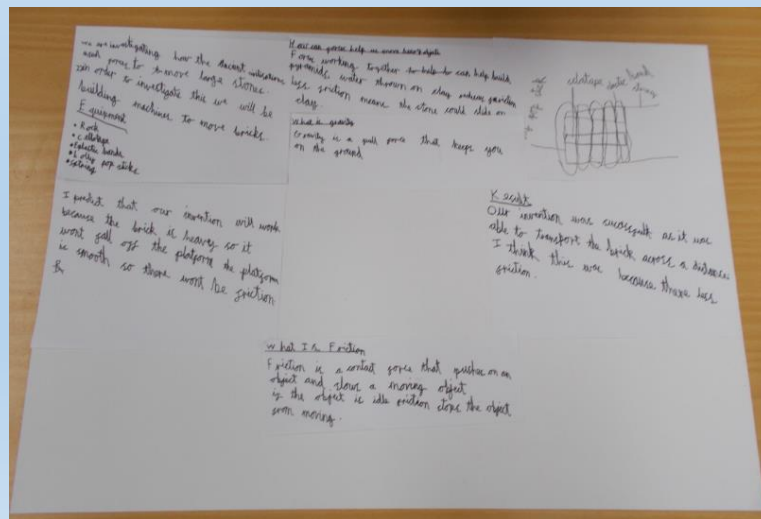
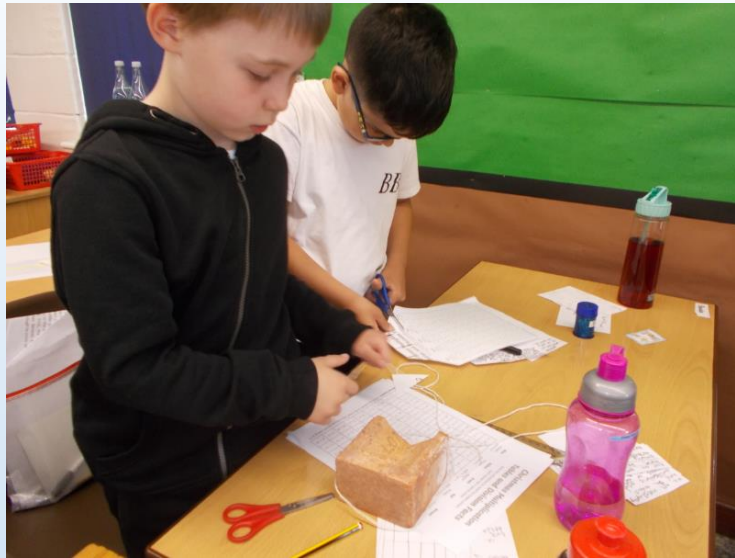
We started off the day by exploring what we thought the greatest invention was. We then named and estimated how old some famous landmarks are – Stonehenge, the Pyramids of Giza, the Easter Island Heads and the Mayan temple at Chichen Itza. We discussed ideas of how we thought these monuments were built then watched a video of a re-enactment of how the large stone blocks which built the pyramids were moved. We explored the Science behind this and looked in detail at the forces of friction and gravity which allowed the stone blocks to be moved when the force of friction was lessened. We were very excited to then start designing our own inventions on moving a brick across the classroom without touching it with our hands. All of our inventions worked but some of us had to change them to make them work.

Here are some quotes of what the children thought of the day:

“I found it really good and enjoyed making the brick move.”

“When I was making it, I wasn’t very confident if the string was going to hold as I used sellotape to attach the sticks together but it did hold together and it worked!”

Year 3



Year 4

On Science day we studied the scientist, Alexander Graham Bell who invented the telephone. We already had prior knowledge because we have been looking at Victorian inventions in our topic lesson. Our first activity was to research Alexander Graham Bell, this gave us a greater understanding of the telephone and why he invented it. We then worked with our partner, looking at how the telephone has developed over the years. After that, we travelled into the future and designed our own telephones. We really enjoyed this activity, it was amazing to see how telephones could look in the future! Finally, we travelled back into the past and made telephones using plastic cups and string, we learnt that you had to have the string tight for vibrations to travel to your ear. We had a fabulous Science day!

Here are some quotes of what the children thought of the day:

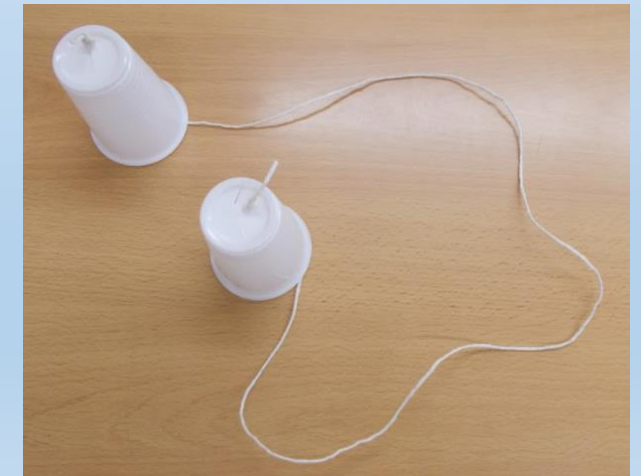
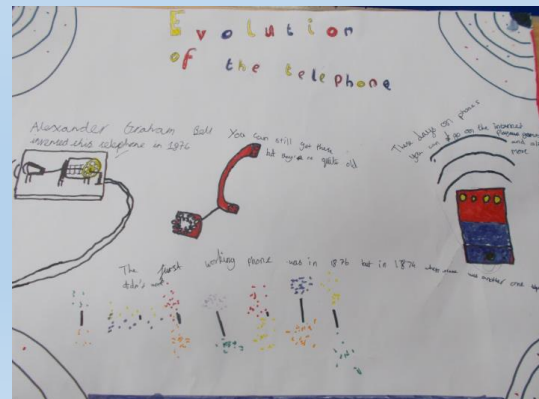
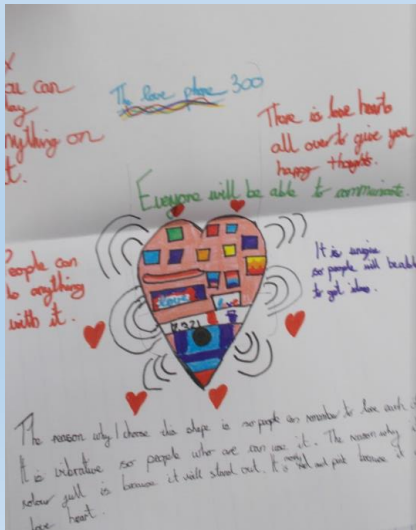
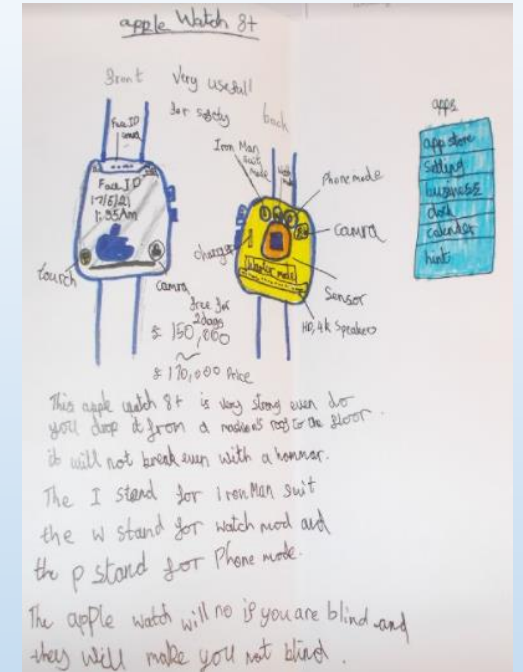
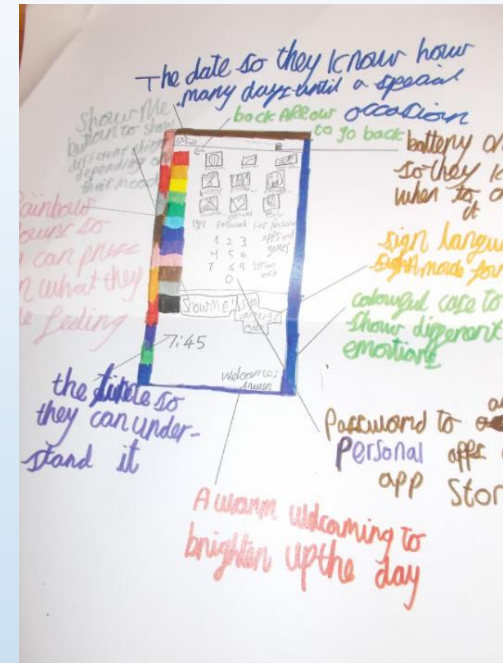
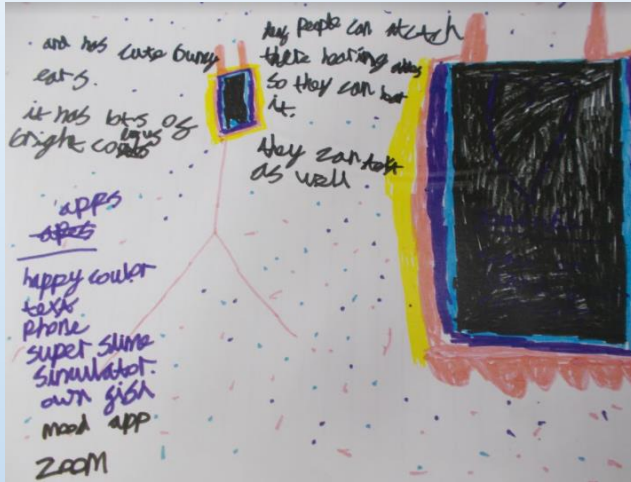
“I really enjoyed Science day because I got to design my own telephone called the apple watch 8 +!”

“I learnt on Science day that if something doesn’t go right the first time try again.”

“I really enjoyed making the old telephone, using cups and string. If you pull the string tighter the vibrations will travel to your ear.”

“I learnt that when you look into the future you can create something incredible!”

Year 4



Year 5

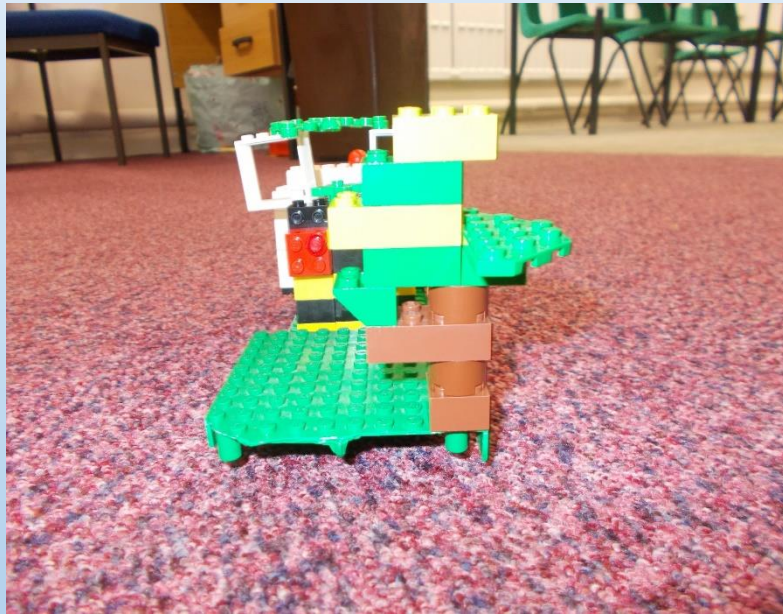
We began Science Day by looking at some amazing innovations that have been invented over the past 100 years.

Then we asked the question...what could we innovate?

Our task was to design a new innovation, we came up with the Robo-Bug, one of them being called Antony!

Our Robo-Bugs would be search and rescue vehicles to help mountain climbers in difficulty, but the vehicles would have the flight and manoeuvrability of flying insects.

Year 5



Year 6

On Science day, we began our day by completing some word activities relating to Science specific vocabulary, these included a word search, which we found a little tricky to finish.

After that, we thought about scientists; what we think they look like and the skills that you need in order to be a scientist. We realised that scientists have different appearances and achieve great things.

Once we completed our work on different Science activities, we focused on the Circulatory System. The main function of the system is to pump blood around our bodies, giving all parts oxygen, nutrients and water. Although it was quite difficult, we produced our own models of the system that looked fantastic!

Once we had done this, we researched an innovation to support the Circulatory System – the Pacemaker. We identified that it was a piece of equipment that was invented to keep the heart beating at a constant rate.

We completed our Science Day activities by building our own models of a heart pumping blood around our bodies. We did this using water bottles that acted as the chambers of the heart and organs of the body, and tubes that acted as blood vessels. This was a really exciting and fun activity that showed us how the heart works.

Year 6

