

# Farnborough partnership



## Science news



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### Star gazing at Salesian College

**James, Y7:** The best thing about the Astronomy Evening was the telescopes, even though it was too cloudy so fake targets had to be set up. It was the first time I realised that earth is the only planet with non-frozen water. The most challenging part of the evening was to not get your hands covered in ink when you coloured the sphere to make a planet. It was also the first time I saw that other planets had thousands of days in their year and long days, because I always thought it was about 600 days in a year for the longest yeared planet.

**Dexter, Y7:** My favourite part of the astronomy evening was looking through the telescopes because we could see the moon when the clouds parted, and it looked very soothing and calm. It was my first time looking through a real telescope outside. I particularly like Mr Hartland's presentation on the planets, and it was quite funny. The observatory was very interesting, and all the planets looked so realistic. I felt like I was in space. We all had a lot of biscuits and hot chocolate, which was obviously the best part. I learned a lot about other suns that are bigger than ours.

**Rohit, Y8:** My favourite part of Astronomy evening was looking through the telescopes because you could see Jupiter on that night. I found it interesting to learn about the masses of the planets and it was the first time I had helped with something related to space. I particularly enjoyed helping the younger students find their groups. Finally, I really enjoyed the dome because you could see constellations and the stars looked spectacular along with the planets.

### Science in Reception!

By Reception at St Mark's C.E. Primary School

Reception have been enjoying their new 'Scientific Investigations' area. Each week they have a Science challenge to solve based around a story book. So far they have explored material thickness by making a mattress for the Princess where she could not feel the pea, shadows to scare the Gruffalo's Child and dissolving by trying to make tea in different ways. After each experiment, the children discuss what they have found out, share the experiments with others and record their results. Everyone is having a fantastic time trying to solve all the problems!

Reception say:

"It's really good"

"I like the experiments!"

"I could make the shadow really big with the torch."

"It took a lot of material to not feel the pea."



St Mark's C.E. Primary School



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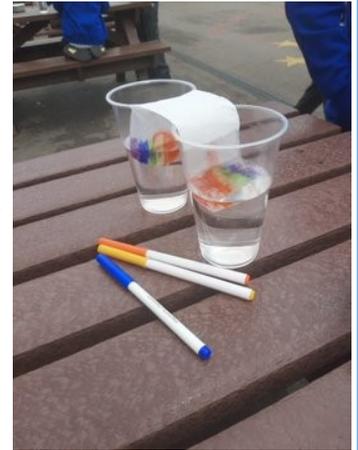


Being a science ambassador

Being a science ambassador is so fun because you get to do experiments. To be a good ambassador you need to like science and be good at talking about things. At lunchtimes we lead experiments so we can do them and everyone else can join in. My favourite ones were making rainbows by showing connections between two beakers of water and drawing round shadows of people showing connections between the sun and how shadows are made.



By Kylah year 4 science ambassador



As part of our space topic, we were given a bag of extra activities to take home. These were really entertaining to use and I especially liked using the torch to project my constellation on the ceiling in the dark. It was so much fun trying out the different constellations and learning their different names. Another bag let us compare the size of the planets with playdough. We really enjoyed sharing all the new knowledge we learnt with our teacher. We also got to learn about different scientists which was great as I want to be a scientist when I am older.

Let's finish with a joke:

What tunes do planets play?  
Neptunes!



By Akshar, Nirav, Keira and Lily Talavera Junior school



### Planet news What is space?

Space is an incredible, endless world and contains galaxies, universes and multiverses. Galaxies have meteors, comets, planets, shooting stars, dwarf stars, stars, moons and asteroids.

### What have scientists thought about this week?

Scientists believe that there might be wormholes that transport you into a different dimension. Additionally, it is possible to send a message before it closes.

By Richard, Nuo Kai and and Christian South Farnborough Junior



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Star gazing at Salesian College with Year 5 students across the trust with thanks to Cody Astronomical society.



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## British Science week by Max and Charlie S Year 6 Science

British science week this year was all about connections. The science ambassadors at St Peter's introduced the theme to the whole school in our launch assembly. We took inspiration from Malala Yousafza and the UN sustainability goals. Each year group focussed on a different one. Year 3 looked at goal 13 Climate action and looked at where does our rubbish go? Year 4 focussed on goal 6 clean water and sanitation and discovered why water is so important. Year 5 looked at goal 3 good health and well being and investigated what would happen if we ate the same food each day. Year 6 looked at affordable and clean energy through goal 7 and asked what is the future for electric power? To finish our science week we held a science fayre with the help of some parent STEM ambassadors and outside companies we flew aeroplanes in the hall way looking at how we connect with the world; made electricity pylons to see how they connect power; looked as chemists at pH and how different substances link; build bridges to see how they link communities and made boats to see the connections of displacement of water. Throughout the week our science ambassadors ran experiments and we hosted Wendy Cox the head of education at the Ogden Trust.



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### Star gazing!

The first activity we did was learning about planets. We started by ordering the planets from the closets to the furthest from the sun. We were taught this method by our teacher Mr Rowe: 'My very easy method just speeds up planet.' Originally there was a p, but Pluto is now just a dwarf planet because scientists found more Pluto sized planets. Next, we ordered the planets from biggest to smallest but only one group got it right. It was Jupiter, Saturn, Neptune, Uranus, Earth, Venus, Mars then Mercury. After that, groups decided an order of planets from most habitable to least. Every group had a different order. Finally, with

felt-tips and pencils, we designed our own Styrofoam planets. We filled in a sheet about our own planet and headed to the next activity.

Stargazing was extremely fun and all of us got to have a go at using the telescopes. The electronic telescope was attached to webcam so we saw extremely detailed images of the moon and other interesting space things like nebulae, which form when stars explode. Even though it was a cloudy night we all saw planets, stars and constellations and learnt lots of facts in a fun, interesting way.

As we walked into the planetarium room and saw a colossal sized dome. The instructors were called Zac and Dave. After a while, Zac dived into the dome and we followed him. Once we all got in, we sat around the inside of the dome. Zac started to show us all the different stars and sun. Then he showed us pictures of the stars and explained how to find the north star. Dave then showed us what happens when a star hits something. Bang! Everybody screamed at the top of their lungs. Finally we saw how a star dies and at the end the cover of the dome flew off and we went home.

Year 5, St Patrick's



By two Year 2 Science Ambassadors at St Mark's C.E.

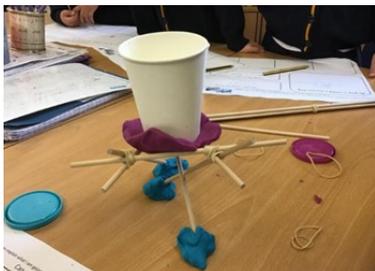
Primary School

For our Home Sweet Home project we explored different countries around the world and found out how houses are made in each country we learnt about. We were going to be Scientists and Geographers in this project. We started



by sorting materials by properties because we were trying to find out which material to build a house from.

While learning about Greenland, we experimented to find the quickest way to melt ice. We used a hairdryer, spoon, warm water and some salt. The warm water and hairdryer were the best. Ice is very strong when it is cold.



We found out that the house material needed to be a good insulator to keep it warm inside. Some countries need it to stay warm in their houses. We used thermometers and our observation skills to find the material that kept a cup of tea the warmest.

St Mark's C.E. Primary School



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Me and five of my friends went to Science Ambassadors class at St Peter's school. We made a cone and put it on the top of the bottle. When we squeezed it, it shot up! It was fun! Toby J, Robins Class. We made a boat out of tin foil and then we got some playdough and put it in the boat. We were testing to see if the boat sank or floated. My boat did well!" Archie, Skylarks Class. My boat did well too. Toby J

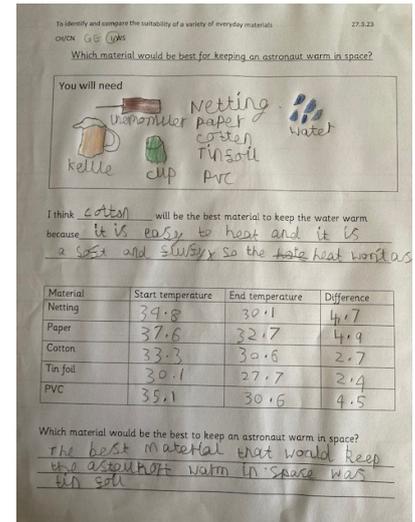
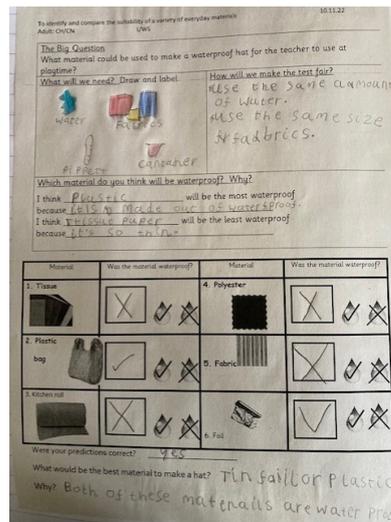
South Farnborough infant school



We like experiments in science when we get to ask questions and find the answers ourselves. Sometimes it gets a bit messy but

that's fun!

North Farnborough infant school



Wavell science team dressed up for world book day. Showing the link between myths and legends and how science has developed over time.



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St Bernadette's have been looking this term at forces. Magnetic, gravity, friction and buoyancy.



## Mass fish deaths in Australia's second longest river have been blamed on low oxygen levels

The fish started dying in the Darling River near the New South Wales town of Menindee, where temperatures have been reaching 40C, on Friday. Experts say the mass death event likely occurred because fish, mainly bony bream, cod and perch, need more oxygen in hot weather, but oxygen levels in the water dropped after recent floods receded. Scientists are trying to figure out why there was no oxygen in the river. They have to run tests as there is no sensible reason why the oxygen levels were so low.

By Summer, Hazel and Abbie



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Date for your diary!

After such an exciting term of events we look forward to the summer term and hosting our very own collaborative science fayre.

Friday 30th June 3.30-5.00 at St Peter's Junior school

We look forward to all the schools who will be collaborating together to make the event happen.