

HEADTEACHER'S MESSAGE

Dear Parent/Carer.

It has been a thrilling week with children experiencing science in a multitude of ways. I hope you have gained an insight into your child(ren)'s learning as undoubtedly many will have returned home full of excitement, eager to share their accomplishments.

We are very grateful to parents/carers who have offered their support in school across the week, and thanks to Mrs Liddiard with help from Miss Connelly for planning the many rich and engaging activities.

Kind regards,

Simon Fletcher.

STEM/Science Week

Many, many thanks to all for sending in a £2 contribution to the week - it has allowed us to maintain quality, exciting workshops this year. If you would still like to make a contribution you can do so via parent pay.



Volunteers needed for Churchfields Swimming Pool Atworth base

It's that time of year where we are looking at reopening our lovely pool for our children but to do this we need a few more volunteers to help make this happen!

This would involve general weeding of the pool area, repainting the changing rooms and checking chlorine levels/cleaning the pool and more importantly fundraising ideas as without help and money there would be no pool!!!

We are not asking people to dedicate a specific day or time a week as we are all busy with our lives outside of school but as and when would be amazing.

If this sounds like something you could do please email me on zoeroberts3@sky.com or catch me in the playground.

School Activities at a glance

Monday 16 – Friday 20 March

No teacher led clubs this week

Tuesday 17 March

Parents' evening until 7:30pm

Parents Evening – Reminder

Parents' evenings will take place on Tuesday 17th and Wednesday 25th March. We encourage all parents to attend and sign-up sheets are available at the start and end of the school day for you to book your slot.

Tuesday 17 March

3:15 – 7:15pm – Monkton Farleigh

3:30 – 7:30pm – Atworth

Wednesday 25 March

3:15 – 5:45pm – Monkton Farleigh

3:30 – 6:00pm – Atworth

Mr Fletcher will be at the Monkton Farleigh base on Tuesday 17 March and the Atworth base on Wednesday 25 March if there is anything you would like to discuss with him.

CHURCHFIELDS PTA

EASTER BAKE-OFF!

FRIDAY 3rd APRIL

AT BOTH ATWORTH & MONKTON FARLEIGH

50p per Entry

Categories: Easter Theme/ Safe Bakes/ Independent Bakes

Please bring entries to the halls at morning drop off
Please have Safe Bake entries clearly labelled, eg.
Gluten Free / Dairy Free

Winners to be announced in Gem Learners and entries to be sold after school to raise funds for our PTA



STEM/Science Week 2020

What a fantastic Science week we have had. I do hope your children have come home talking all about the learning and activities that have taken place. Huge thanks to the PTA for funding our visitors this week. The teachers and teaching assistants have all flung themselves into the week with great enthusiasm too, making a memorable week – especially 'Workshop Wednesday'. Your children are such great scientists and engineers - full of curiosity and keen to solve problems - it has been a delight to try and answer their questions and guide them in their challenges and investigations. It was super to see year 5 and 6 at Atworth lead their Science Share after school too.

Many of the pupils have been truly inspired by the brilliant presentations given by parents about their STEM careers and I am sure we now have some aspiring engineers, microbiologists, doctors, nurses, pharmacologists, environmental scientists, product developers etc. etc. in our midst. A **HUGE THANK YOU** to all those parents who have taken time to prepare a talk and come into school this week – you have made it a very special week.

Andrea Liddiard
Science Leader



ON MONDAY 9TH MARCH A MAN FROM SPACE UK CAME IN. He showed us how the rocket launches by spraying rocket oil (it was actually table cleaner) and lighted it creating the same chain reaction to power the rocket. When that was finished there was liquid left in the oil.

Next we were given two containers with space rock in (sugar and yeast) after about 2 minutes it started to grow and we were looking for signs of life and it actually farted in test A! In test B it pretty much stayed the same.

Last but not least we did a pee test as in space water goes to your brain but as there is no gravity it doesn't go to your lungs so you have to look at the colour of your pee to see if you need medical attention. The darker the pee the worse. We were given marmite, water and lemon juice. We had 4 pots and we had to make worrying pee, bad pee, okay pee and right pee.

Spencer

ON THE 9TH MARCH 2020 MR BENNETT (THEO'S DAD) CAME IN TO TALK TO US ABOUT HIS EXPERIENCE AS A SCIENTIST! He talked to us about his childhood of having a passion for science. He now works for a company called Vectura who design and create inhalers. He brought in science equipment such as lab coats, goggles, pipettes, a microscope and loads more. He brought in some of his inhalers and aero chambers that his company produced. There were 3 stations with lots of equipment to help us learn something new. We loved Mr Bennett's lesson and we hope he comes again soon.

ON TUESDAY 10TH OF MARCH, A SCIENTIST OF RENEWABLE ENERGY (OLIVER FROM KINGFISHER'S MOTHER) CAME TO VISIT US.

First we learnt about different types of energy (renewable and non-renewable). We talked about satellites and wind and water turbines and how they power energy for houses. We looked at a video that shows how wind turbines work.

Immy and Morgan

WORKSHOP WEDNESDAY

We were secret agents writing with invisible ink (lemon juice and milk). We started by using a paintbrush and dipping it into milk and writing down a secret message. We then let it dry then ironed it and it showed the message.

In another group we were looking at our hands. We cut out templates of hands, we then put straws and strings to look like the bones. Then you could bend them to make them move. We really enjoyed it.

One of the workshops was making boats. The boats were made out of tinfoil. We had to fill them with coins until they sank. We had to design them so they could hold the most. Some of us even put plasticine in as well as coins and tinfoil.

We also made rockets out of paper. You had to wrap the paper around the straw, and it sort of looked like a telescope. Then we had to cut out two triangles and stick them on the sides. Then we put the straw in the open bit of the rocket and blow and then you have a rocket.

We looked at constructing and engineering. One activity was to build something out of lego from a challenge card. The other challenge was to make a triangular prism, a cylinder and a cube. Then we put books on top of each shape and whichever had the most books on top before collapsing was the best. The cylinder was the winner because it didn't have any corners. On the other shapes though when one corner fell the whole thing fell.

We made helicopters by cutting them out and folding, then putting a paper clip on the bottom as the weight. We coloured them in and experimented. We had to try to make it spin clockwise and anticlockwise.

One of the activities was looking through microscopes. We learnt some scientific words such as specimen, lens and adjusters. The specimens were put in protective pots and I liked the two pence best. You could see the scratches and tiny writing. The pop[ly] seeds were interesting too. Although they looked round and smooth, they actually had craters and were shaped like kidney beans.

Kestrels

ENGINEERING TALK

On the Thursday of science week we had a talk about engineering. We had two lovely ladies come in named Rachel and Joanna. They are both engineers. They told us about civil engineering, mechanical engineering and the projects that they do. They showed us how engineering works and how everything around us includes engineering. They showed us lots of pictures and videos about what engineers do when they work. Rachel told us about her work with the new underground railway (Crossrail) that she helped to build and they also said about all the work that goes into building big bridges, buildings and how they don't fall down. They have inspired lots of us at Churchfields to have an engineering career.

Annabel and Castiel

KESTRELS HAVE BEEN RESEARCHING FAMOUS SCIENTISTS DURING THEIR ENGLISH LESSONS THIS WEEK, AND WRITING THEIR BIOGRAPHIES. THEY WERE REALLY INTERESTED IN THE LIFE STORIES OF THESE SCIENTISTS, AND WOULD LIKE TO SHARE WHAT THEY HAVE DISCOVERED.

Charles Macintosh: the wizard of waterproofs

Charles Macintosh (born in 1766, in Scotland) designed the first waterproof items.

When Charles left college his father encouraged him to become a merchant just like him: he denied this offer because he wasn't ready for business - yet.

As a young adult, Charles loved chemistry: the Bunsen burners, the samples, the liquid nitrogen, but most of all destroying/melting various substances.

One day when Mr Macintosh was doing his destructive ways, he decided to melt some rubber on two pieces of cloth and let it dry. He came back in a couple of hours and the fabric had been stuck together: he had made a waterproof outfit.

It did not go to plan as the tailors didn't approve; they told him that they couldn't join the pieces of cloth together because the water would go through the holes. The coats were a big hit after the Duke of York bought a waterproof cloak.

Charles made all sorts of things out of waterproof material such as bags and airbeds; these would be good for a trip to the Arctic and help protect things from the icy weather.

Even after Charles Macintosh died in 1843, people always put on a Macintosh raincoat when it rains.

Emily

Becky Schroeder: youngest child inventor

Becky was born in Toledo, Ohio 1962. When her dad always pushed her to do her best. She loved doing homework in her car, but one day it was way too dark and she couldn't see her maths! Schroeder was very crafty little girl so she started to think.

Becky thought about a glow in the dark Frisbee and she researched it with her dad. Then she did research about a firefly and found out what makes it glow: its bioluminescence. But that's impossible to get.

Schroeder looked at her paper and thought. Finally she had an idea, to paint it yellow. But she realised she had used too much paint. Eventually Becky look at clipboards and painted that....it worked! Her dad was so impressed. Soon she had a lot of money.

She used it to start a company in New York! She was famous. Everyone used it (such as doctors and photographers) even NASA! Soon she had over 20 patents. She was the youngest female child inventor (USA) all for painting a clipboard!

Alex

Nikola Tesla: an electrical genius with a passion for maths

Nikola Tesla was born in the dark night of a lightning storm on the 10th July 1856. Weirdly he grew up to study electricity. At school he was amazingly clever. He was mind blowing at maths and superb at science.

When he was a child he was given a picture of the Niagara Falls. He found this picture amazing; he thought it was an amazing way to conduct electricity. When he was 24 he moved to America to share his ideas. In America he was met by Thomas Edison. Thomas Edison asked him to make something to solve a problem in America. Nikola worked day and night to get it done. When Nikola asked for the money Thomas wouldn't pay him.

After this he refused to work with people but this meant he was low on money. He got a small time job digging ditches. This wasn't great for Nikola but it was feeding him. Then he decided to set up his own company. His company worked well for him and got him back on track with life.

In 1893 an opportunity came for him. He was asked to invent a way to light up 100,000 lights for the Chicago World Fair. It was a huge event and impressed millions of people.

Nikola carried his business on and many people followed; people were inspired by his work and progress through life. He went on to invent many well-known things like radio and remote control, neon lights and an electricity system named the Tesla coil. He has around 700 inventions under his name.

Nikola Tesla was an amazing man and left an amazing legacy for others to follow. Mr Tesla's death was in 1943 at the elderly age of 86. Nikola was an amazing scientist and mathematician who others must know more about.

Annabel

Patricia Bath: laser genius

Patricia Bath cured thousands of blind people using smart laser technology. Although she came from a poor family she worked hard and saved many families from despair.

She was born in 1942, Patricia was born in a poor suburb in New York. When she was young she was given a microscope as her dream was to help many people and to work in medicine. It was rare where she lived to get a good career and definitely to become famous. With the help of her parents she worked hard and she won (at the age of 16) a science award for researching the link between cancer, nutrition and stress.

This meant the Head of Research was amazed and included her in his scientific paper. She then finished high school in just two years (half the expected time). She later went on and got a medical degree and became a doctor like she always dreamed of. This was only a small push to start her on her incredible journey. She soon joined two hospitals: Harlem and Columbia University. In Harlem there were poorer people and she started to realise that they couldn't afford eye surgery.

So she persuaded her professor to give eye surgery in Harlem for free. However then the way of doing it was grinding your cataracts so she learned about laser technology and in 1986 she developed a system called the laserphaco probe and this helped people who had been blind for over 30 years. The laserphaco probe dissolves the damaged eye lens and a new lens is inserted through a tiny cut.

Patricia was inducted into the Women in Medicine hall of fame in 2001 as a recognition of her incredible work.

Spencer

Marie Curie: great physicist and chemist

Marie Curie was born in Warsaw, Poland on November 7 1867. She was the youngest of five children and both her parents were teachers so she got a head start on reading and writing. When she grew up she couldn't study because women weren't allowed to go to university in Poland.

She wanted to go to Paris in France. She didn't have enough money, so she saved up with her sister, Bronia, until they had enough to travel. Marie went around trying to earn money but she barely had enough to survive. Also it was freezing in the winters. Although she finally made her place in physics. This was a point when she met her husband: Pierre Curie.

Soon after earning her degree in physics she and her husband turned out to be researchers. Later on they found out a big chunk of rock that had energy in it. This was called uranium but it was quite slowly breaking down. So Marie and Pierre investigated this further. In 1898 they both discovered two new elements from the periodic table, which die down and radiate energy as well as uranium. They further on named them radium and polonium. She also came up with radioactivity.

In 1903 Marie and Pierre were awarded a Nobel Prize in physics. Further on in 1906, Pierre died in a horse and carriage accident. In 1911 she got awarded another Nobel Prize for chemistry.

Marie invented a portable X-ray machine called, "petites Curies" which helped millions of men in World War I. Doctors also found out that it could help people that have cancer. Sadly Marie died in 1934 from cancer.

Sam

VISIT FROM MRS SPAREY FRIDAY 13 MARCH

Today we looked at the different types of engineering but focused mainly on software engineering. We looked at the two different methods of how to create a game. The first was agile, which is if you need a car to move some crates of toys then you would start off with a tiny car and then improve until you have made a lorry or as big of a car as you need. Then we looked at the other method which is waterfall, when you do everything in a straight line which means the process can take longer. Then we played a game to understand the process of how software engineers work. We had two boxes, one filled with 50 balls and the other empty. We tried to get the balls into the other box, but everyone had to touch each ball. We all had so much fun, we really enjoyed it and had lots of fun learning new things about engineering that we didn't know before.

Maisy & Rosie

THIS MORNING KINGFISHER AND WOODPECKER CLASS WERE DELIGHTED TO HAVE A VISIT FROM MRS KIRSTY DALTON.

Kirsty is a nurse and works alongside many schools and many many children and young adults.

We discussed the importance of washing our hands, how we take temperatures, apply bandages and plaster of paris for casts. The children were then tasked with many wonderful activities, putting into practice lots of the skills talked about.

Kirsty also talked about looking after our wellbeing and that of others. She read some wonderful stories that helped explain how our emotions work and impact on us. We especially loved, The Colour Monster.

It was a terribly informative and practical morning and was very much enjoyed and loved by all of the children and adults. Thank you!



DIARY DATES TERM 4:

Term 4	
Monday 16 March – Friday 20 March	No teacher led after school clubs this week
Tuesday 17 March	Parents' evening until 7:30pm
Wednesday 25 March	Parents' evening until 6:00pm
Wednesday 25 March	WOW Day
Friday 03 April	Nightingale Class and Years 3 & 4 Falcon class Swimming Melksham Blue Pool
Wednesday 01 April	Easter Service Atworth Church 1:15pm
Wednesday 01 April	Easter Concert Atworth Hall 3:30-5pm
Friday 03 April	Churchfields PTA Easter Bake Off
Friday 03 April	End of Term 4

Future INSET days for Academic Year 2019/2020: Monday 01 June 2020 Wednesday 22 July 2020

Term Dates 2020

Term 4: 24 February 2020 – 03 April 2020

Term 5: 20 April 2020 – 22 May 2020*

Term 6: 01 June 2020 – 22 July 2020

*Early May Bank Holiday is Friday 08 May 2020

The
LOOKOUT
Day Nursery

www.thelookoutdaynursery.co.uk

Brand New Nursery - Open days




A chance to visit a brand new nursery and out of school club opening Easter 2020!

Saturday 7th March
Saturday 21st March
9.30am - 12.30pm

Activities, childrens snacks, time to talk to staff and experience our ethos and setting

The Lookout Day Nursery and Out of School Club is opening in Monkton Farleigh in April 2020! We will offer full day care for local families with 2-5 year olds, throughout the year. Will offer wrap around care for school aged children, with Breakfast, Afterschool and Holiday Clubs. We will pick up and drop off at both the Monkton Farleigh and Atworth bases. Please see the attached flyers for more information and feel free to visit on of our open days or contact me to arrange a show around.

Looking forward to meeting you,

Charlotte [Hello@thelookoutdaynursery.co.uk](mailto>Hello@thelookoutdaynursery.co.uk) telephone 07966926502

PipeUp!

THE CHURCH OF ENGLAND
DIOCESE OF SALISBURY

Pipes 'n' Pizza!



Organ Workshop for Young Musicians aged 8-18 with Chris Totney, local Music Teacher and Organist

Come and find out what it's like to play the 'King of Instruments' No previous experience necessary - all abilities welcome, even complete beginners!

Saturday 28th March at 10.00am
at St Mary's Parish Church, Church Street, Calne, SN11 0HU

PLEASE NOTE: Children must be accompanied by an adult at all times

No charge - just book! *To book your free place, contact Chris Totney: Tel: 07811 629062 / Email: christotney@gmail.com*

Supported by the Mrs R P Tindall Trust and the Michael James Music Trust

Workshop ends with Free Pizza at 12 noon!

free pizza!

[@PipeUpSalisbury](https://twitter.com/PipeUpSalisbury)