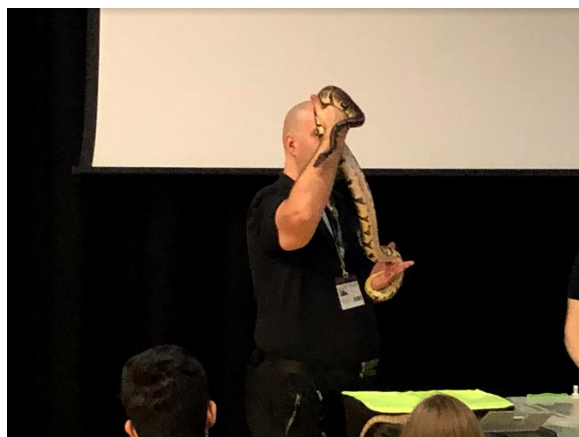


Science Week 2019 @ Chelsea Academy

British Science week ran from 8th - 18th March this year, with a national theme of "Journeys". At Chelsea Academy we started Science week with the final day of careers week, welcoming visitors to talk to students from all year groups about careers in construction, coordinated by Mrs McNally. Throughout the week, we had a variety of activities taking place both in and out of lessons, including Mrs Holgate's assembly on Creativity.

Reptile Events - DGE

Students from Year 7 to Year 13 enjoyed learning about reptiles after school on Monday. They were able to see a bearded dragon, a blue tongue skink and a variety of snakes. Students asked excellent questions, including asking about their life cycles and came away learning about the difference between something poisonous and venomous. Students were then able to handle the reptiles and did so with lots of excitement. It was great to see so many students taking a break from exams season and getting to learn about these rescued reptiles.



Shark dissection - DGE

During this after-school dissection an enthusiastic group of students learnt about the physiology, anatomy and behaviour of the dogfish, a member of the shark family. Students were able to identify the internal organs, touch the dermal denticles on the skin and examine the characteristic cartilaginous skeleton of these organisms.



UK Space Academy trip - TGT

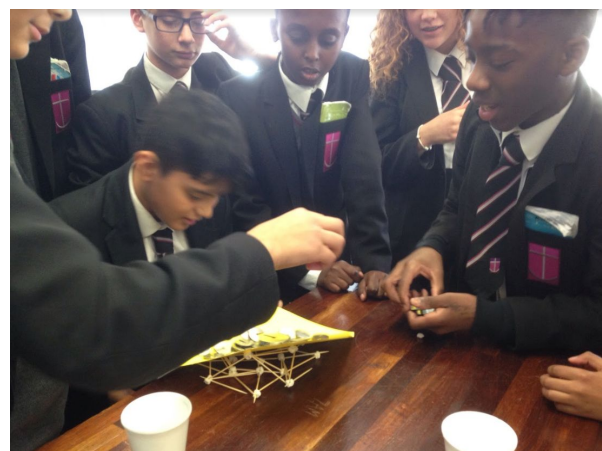
14 Year 10 students spent a day at Heathlands school in a series of workshops run by the National Space Agency. They got to learn some interesting science within the context of being an astronaut and designing rockets. They now know what will happen to them if their space suit rips (not nice at all) and how astronauts train to go to the loo (don't ask them you really don't want to know). In the afternoon they benefited from access to sufficient space to test the rockets they had built, the Chelsea rocket comfortably out performed the Heathlands one!



Parachutes & Marshmallow Structures - SGL

During Science week some Year 7 pupils got creative and designed an “egg lander” to safely drop from a height without breaking! They turned various junk materials into amazing parachutes and competed with each other to find the slowest (and safest) descent!

Also some Year 8 students having looked at strong shapes used in building towers and bridges had an engineering challenge to solve: design and create a structure to support as much mass as possible using only mini marshmallows and some cocktail sticks!! They worked well together and came up with some fantastic designs - the winning structure supported 430g without collapsing. Unbelievable!



Dentistry (Introduction)- KGY

Students looked at the muscle in the skull, size, shape and location. They then injected 'jelly' with ink, simulating soft inflamed gums. This was followed by an opportunity to map the adult teeth using the dentistry codes provided, identifying the unknown teeth through examining the shape of the crests. We ended by looking at gum health.

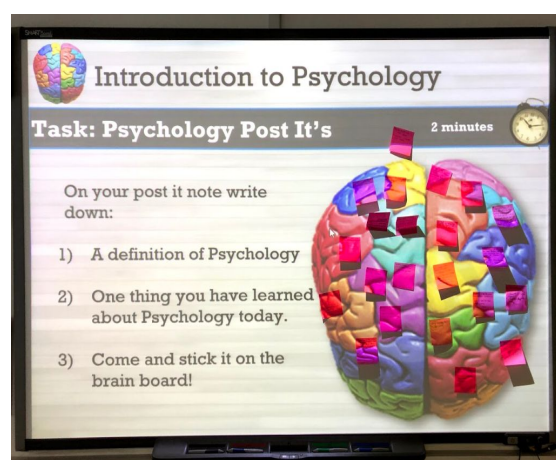
A level Chemistry Forensic Science lecture

Miss Gillman took a group of our A level Chemistry students to the Royal Society of Chemistry to attend a Forensics Lecture "Death, Drugs and Detection" given by Dr Hilary Hamnett, Senior Lecturer in Forensic Science at the University of Lincoln.



Year 10 Journey through the mind - KFX

Year 10 students had an introduction to Psychology in their science lessons this week. They explored questions such as "Why do we obey authority?" and understood the concept of selective attention. Students left the lesson with a good understanding with what Psychology is, and how it can help explain behaviour in society.



Year 9 Journey to Mars - BDT

Students in Year 9 learned about Mars, its size, shape, distance from earth and gravity, looking at the Roman and Greek origins to the naming of Mars and its planets. They saw a simulated reality of the Mars Rover curiosity on Mars, exploring surface. Students finally planned a colony on Mars involving life support, water recycling food production on a real site on Mars' surface. Some of their ideas were amazing!

Staff CPD - Owl Pellet Dissection - MBS

For Wellbeing Wednesday, staff were able to come along and learn about what owl pellets are (e.g. owl sick!) and dissected one each. Owl's can't digest a lot of what they eat, e.g. the bones and fur of small mammals, so they form these into a pellet inside their stomachs and then regurgitate these out of their mouths! Each owl pellet is about the length of a thumb and contains usually the remains of four or five small mammals. We found skulls of many types of voles during our dissections and were able to see a range of different skeletal structures. A great way to relax on a Wednesday!

