



Science Overviews Term 3 2018



Aldgate Primary School's 'Pop Up' Science Expo

This term in Science, each class (Year 3 to Year 7) will be planning their own "Pop Up" Science Expo that they will share with another class during week 9 of this term. This will be a student lead and teacher guided process. Students will choose, research, plan, test, evaluate and reflect on a science demonstration or scientific fair test experiment that they will present, either individually or in small groups, as part of their classes 'pop up' expo. Furthermore, the focus of their presentation will not only be audience engagement but clearly explaining the aim, process and science behind their experiment/demonstration. This will also include further directions they could take their experiment/demonstration and possible practical applications outside of the classroom. They will also present this information via a written report, static and/or electronic display. Through hands on discovery, students will develop their understanding of the key differences between the demonstration of a scientific fact and a scientific fair test experiment.

Students will develop their Science Inquiry Skills throughout this process via such actions as questioning, investigating, researching, comparing, measuring, observing, predicting, testing ideas, collaborative group work and conducting experiments. Reflection and evaluation will also be a key part of their work.

National Science Week will be celebrated through exploring the theme of 'game changers in science' via the lens of block coding with Sphero Robotics. Activities for each year group are listed below;

Year 3's - Students will explore and develop their understanding of Sphero technology and its use of 'drawing' and block code for programming. That will use this knowledge to complete a range of challenges.

Year 4/5's - Students will explore and further developing their understanding of Sphero technology and its use of block code for programming. They will engage in a range of open ended tasks to help facilitate this.

Year 6/7's - STEM Challenge - students will utilise their prior learning from last term and work collaboratively to critically and creatively design solutions to real world based problems using Sphero.

Following the conclusion of our 'Pop Up' Science Expo, each class will participate in a mini STEM challenge that relates to block coding with Sphero and builds on the knowledge they gained in this area during Science Week.