SCIENCE 2020 TERM 4 OVERVIEW

In 2020 the Science focus across 3-7 will be 'The Scientific Method.' Depending on their year level, students will begin and continue to develop their skills in applying this process to their classroom practice and will understand that science is embedded in their lives beyond the classroom.

- **Please note: Students in year 5 will cover the same curriculum outcomes in both classes but the topics and outcomes will be covered during different terms.**

Term 3 Curriculum Overview

Year 3 & 4 - Students in term 4 will be studying Physics where they will analyse what happens when heat is produced at the molecular level and examine the different ways heat can be produced in everyday life. They will plan and conduct scientific investigations to demonstrate how they can show the movement and transference of heat from one object to another. This will include making solar ovens, thermal covers and generating small coals using friction from natural materials. Students will prepare a safety report considering the safe use of appropriate materials, equipment and practices.

Year 5 - Students in Mrs Coad's class will be studying the Physics of how light from a source forms shadows and can be absorbed, reflected and refracted. They will take a brief look at the eye and how messages are sent to the brain; how a camera works; explore how light is captured and how it travels; They will examine how the sun burns and damages skin by exploring UV beads and how shadows reflect and refract using different materials.Students will decide on the variables to be changed and measured when conducting fair testing and observe, measure and record data using digital technologies. They will plan and conduct experiments ensuring safety considerations have been addressed and reported on.

Year 5/6 - In term 4 students in grades 5 and 6 will analyse the requirements for the transfer of electricity and describe how energy can be transformed from one form to another when generating electricity. Part of this will include making home made batteries out of fruits and vegetables and making simple electronic games. Students will perform experiments where they collect, organise and interpret data whilst following the scientific method. In the later part of the term students will compare and classify different types of observable changes to materials in Chemistry and continuity to use the Scientific method to plan and conduct experiments.

Year 7 - Students will have finished their models of wind powered turbines and move onto the Chemistry strand of the Curriculum where they will describe techniques to separate pure substances from mixtures. When performing experiments students will practice their skills in using fair experimental methods, identifying variables to be changed and measured, selecting equipment that improves fairness and accuracy and describing how they considered safety. As always year 7's will draw on evidence to support their conclusions and communicate this clearly to their peers.

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