



Teacher collaborations

Catch the carbon

Australian Curriculum links

Science Year 7-8

Compare physical and chemical changes and identify indicators of energy change in chemical reactions ([AC9S8U07](#))

Exploring energy and storage technologies

Australian Curriculum links

Science Year 7-8

Classify different types of energy as kinetic or potential and investigate energy transfer and transformations in simple systems (AC9S8U05)

Explain how new evidence or different perspectives can lead to changes in scientific knowledge (AC9S7H01)

Select and use equipment to generate and record data with precision, using digital tools as appropriate (AC9S8I03)



Teacher collaborations

Finding a better milk

Australian Curriculum links

Science Year 7-8

Analyse the relationship between structure and function of cells, tissues and organs in a plant and an animal organ system and explain how these systems enable survival of the individual (AC9S8U02)

Compare physical and chemical changes and identify indicators of energy change in chemical reactions (AC9S8U07)

Construct evidence-based arguments to support conclusions or evaluate claims and consider any ethical issues and cultural protocols associated with using or citing secondary data or information (AC9S8I07)



Teacher collaborations

Modelling the human hand

Australian Curriculum links

Science Year 9-10

Explain how scientific knowledge is validated and refined, including the role of publication and peer review (AC9S10H01)

Plan and conduct valid, reproducible investigations to answer questions and test hypotheses, including identifying and controlling for possible sources of error and, as appropriate, developing and following risk assessments, considering ethical issues, and addressing key considerations regarding heritage sites and artefacts on Country/Place (AC9S9I02)

Analyse and connect a variety of data and information to identify and explain patterns, trends, relationships and anomalies (AC9S9I05)

Design and Technology Year 9-10

analyse and make judgements on how the characteristics and properties of materials are combined with force, motion and energy to control engineered systems (AC9TDE10K03)

Analyse and make judgements on how characteristics and properties of materials, systems, components, tools and equipment can be combined to create designed solutions (AC9TDE10K06)



Teacher collaborations

Separating mixtures

Australian Curriculum links

Science Year 7-8

Use a particle model to describe differences between pure substances and mixtures and apply understanding of properties of substances to separate mixtures (AC9S7U06)

Mathematics Year 7-8

Acquire data sets for discrete and continuous numerical variables and calculate the range, median, mean and mode; make and justify decisions about which measures of central tendency provide useful insights into the nature of the distribution of data (AC9M7ST01)

The importance of taxonomy

Australian Curriculum links

Science Year 7-8

Investigate the role of classification in ordering and organising the diversity of life on Earth and use and develop classification tools including dichotomous keys (AC9S7U01)

Explain how new evidence or different perspectives can lead to changes in scientific knowledge (AC9S7H01)

Write and create texts to communicate ideas, findings and arguments for specific purposes and audiences, including selection of appropriate language and text features, using digital tools as appropriate (AC9S7I08)