Investigating patterns of inheritance - Year 10 CLE

Posted by sat on Thu, 2015-09-24 09:05

This CLE covers the topic of genetic inheritance.

The resource is a Connected Learning Experience developed by Science ASSIST to help Year 10 teachers teach the concept of genetic inheritance to their students.

It also includes examples of how the investigations and activities can be adjusted to cater for gifted and talented students.

Description: In this investigation, the inheritance of single gene traits will be investigated using animal and plant examples.

Learning intentions

Students will be able to:

- describe the structure and function of DNA, genes and chromosomes;
- understand that genetics and the environment define traits;
- predict offspring genotypes and phenotypes resulting from single gene (monogenic) crosses;
- explain why combining class data makes the data more reliable;
- make predictions;
- identify patterns in findings;
- develop and justify conclusions;
- explain how to increase the reliability of their data.

The SVG-based diagram that the external link takes you to is best viewed with a browser other than Internet Explorer.

Australian Curriculum v9 Codes: AC9S10U01 (Year 10)

Tags:
Connected Learning Experience
CLE
inheritance
DNA
genetics

genes
traits
chromosome
phenotype
genotype
biological sciences
biology

External Link:
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Source Category:
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Mendelian inheritance