



Science 1.9 Web Links

Interesting Uses of Genetics (page 4, Externals page 186)

Interested in finding out more? Go to:

www.biotechlearn.org.nz/

www.kidsturncentral.com/links/geneticslinks.htm

www.neok12.com/Genetics.htm

www.kumc.edu/gec/

Introduction to Genetics (page 6, Externals page 188)

More information about Allan Wilson:

<http://www.massey.ac.nz/massey/learning/departments/centres-research/allan-wilson-centre/about-us/allan-wilson.cfm>

How is DNA Made? (page 16, Externals page 198)

This 3-D animation shows how DNA is replicated at the molecular level.

www.hhmi.org/biointeractive/explore-dna

What is Mitosis? (page 19, Externals page 201)

Have you ever wondered how you started as one single cell and now you are a complex organism?

www.sciencekids.co.nz/videos/biology.html

Meiosis (page 26, Externals page 208)

Extra for Experts. Go to:

www.cellsalive.com/meiosis.htm

What is a Pure Bred Organism? (page 43, Externals page 225)

Extra for Experts. Go to:

www.sciencelearn.org.nz and search: 'DNA fingerprinting'

Why is Variation Important? (page 46, Externals page 228)

Interested in finding out more? Go to:

www.sciencekids.co.nz

Sexual Reproduction vs Asexual Reproduction (page 47, Externals page 229)

Interested in finding out more? Go to:

www.sciencelearn.org.nz and search: 'reproduction'

Extra for experts: Go to:

www.sciencelearn.org.nz and search: 'exploring genetic variation' or 'genetic diversity'

NCEA Exam Links (page 70, Externals page 252)

- The following NZQA web link will give you access to past NCEA external exam papers (from 2011); assessment schedules (answers to exam questions with requirements to gain achievement merit and excellence); assessment reports; assessment specifications:

<http://www.nzqa.govt.nz/ncea/assessment/view-detailed.do?standardNumber=90948>

- A range of past NCEA genetics questions can be found in the 2004–2010 Science 1.3 (AS90188) exam papers using the following web link:

<http://www.nzqa.govt.nz/ncea/assessment/view-detailed.do?standardNumber=90188>

- A range of past NCEA genetics questions can also be found in the 2003–2010 Biology 1.3 (AS90163) exam papers using the following web link:

<http://www.nzqa.govt.nz/ncea/assessment/view-detailed.do?standardNumber=90163>

Useful Links (page 70, Externals page 252)

The following are some useful web links to the Science Learning Hub.

- A video on using DNA analyses for classification (page 10, Externals page 192):
<http://www.sciencelearn.org.nz/Contexts/Ferns/Sci-Media/Video/Using-DNA-analyses-for-classification>
- A video on using pulsed field gel electrophoresis (page 18, Externals page 200):
<http://www.sciencelearn.org.nz/Contexts/Enviro-imprints/Sci-Media/Video/Pulsed-field-gel-electrophoresis>
- Teacher Resource – alternative conceptions about genetics (page 18, Externals page 200):
<http://www.sciencelearn.org.nz/Contexts/Uniquely-Me/Teaching-and-Learning-Approaches/Alternative-conceptions-about-genetics>
- News archive ‘Bill Proposes Wider DNA Sampling’ (page 18, Externals page 200):
<http://www.sciencelearn.org.nz/News-Events/Latest-News/News-Archive/2009-News-archive/Bill-proposes-wider-DNA-sampling>
- Teacher Resource – true or false student activity on genetics (page 18, Externals page 200):
<http://www.sciencelearn.org.nz/Contexts/Uniquely-Me/Teaching-and-Learning-Approaches/Genetics-true-or-false>
- A diagram of a cell, chromosomes and DNA (page 22, Externals page 204):
<http://www.sciencelearn.org.nz/Contexts/Uniquely-Me/Sci-Media/Images/Cell-chromosomes-and-DNA>
- Teacher Resource – genetics webquest activity idea (page 24, Externals page 206):
<http://www.sciencelearn.org.nz/Contexts/Uniquely-Me/Teaching-and-Learning-Approaches/Genetics-webquest>
- Teacher Resource – further reading on genetics with video links and activity ideas (page 24, Externals page 206):
<http://www.sciencelearn.org.nz/Science-Stories/Ever-Wondered-Series-2/Genetics>
- Further information on twins (page 26, Externals page 208):
<http://www.sciencelearn.org.nz/Contexts/Uniquely-Me/Looking-Closer/Twins>
- A video in researching the link between genotype and phenotype (page 33, Externals page 215):
<http://www.sciencelearn.org.nz/Contexts/Uniquely-Me/Sci-Media/Video/Researching-the-link-between-genotype-and-phenotype>
- Further information the genotype/phenotype connection (page 33, Externals page 215):
<http://www.sciencelearn.org.nz/Contexts/Uniquely-Me/NZ-Research/The-genotype-phenotype-connection>