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Back and forth - Year 10 CLE

Posted by [Anonymous](#) on Mon, 2016-03-07 07:37

This online resource covers energy transformation and conservation.

The resource is a Science ASSIST Connected Learning Experience (CLE) to help teach Year 10 students the concepts involved in energy transformation and conservation.

Description: In this investigation, energy transformation and energy conservation are investigated by analysing the motion of a pendulum.

Learning intentions

Students will be able to:

- explain that one or more different forms (or types) of energy can be present at the same time;
- understand how one form of energy can be transformed into other forms and vice versa;
- identify that the total amount of energy remains constant (total energy is conserved);
- identify and describe the relationship between the length of a pendulum and its period;
- identify and describe the relationship between the mass and angle of release of a pendulum and its period;
- draw conclusions based on evidence;
- identify sources of error;
- identify improvements that could increase the reliability of data;
- communicate science ideas using appropriate language and representations.

Australian Curriculum v9 Codes: AC9S8U05 (Year 8), AC9S9U05 (Year 9)

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Forces and energy

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