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Energy - Science by Doing

Posted by [ctilley2](#) on Fri, 2014-11-21 10:34

This online resource is an inquiry-based learning sequence covering the different aspects of energy covered by the Australian Curriculum: Science.

The resource includes: hands-on activities, digital interactives, animations and videos, and the topics covered include: energy types, gravity, mass, weight, inertia, work, force, simple machines, friction, heat, conduction, evaporation, convection, specific heat, temperature, light spectrum, cyclones, circuits, battery, motors and generators, force fields, food chains, photosynthesis, and energy production.

Students learn to identify heat transfer and design a model house that can passively maintain a comfortable temperature.

Teacher guide, activity sheets and assessment available.

Tags:

[energy types](#)

[kinetic energy](#)

[gravitational potential energy](#)

[gravity](#)

[mechanical energy](#)

[mass](#)

[weight](#)

[inertia](#)

[work](#)

[force](#)

[simple machines](#)

[mechanical advantage](#)

[friction](#)

[heat](#)

[fire](#)

[conduction](#)

[evaporation](#)

[convection](#)

[specific heat](#)

[temperature](#)

light spectrum
cyclone
electrical energy
electric circuit
motor
generator
field
battery
food energy
food chain
photosynthesis
Sankey diagram
energy transfer

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Forces and energy

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