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Energy - Science by Doing

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This online resource explores different aspects of energy.

The resource is an inquiry-based learning sequence covering the different aspects of energy covered by the Australian Curriculum: Science. **Note: This resource conforms to the pre-2022 version of the Curriculum (see Additional Information).**

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.

Australian Curriculum v9 Codes: AC9S8U05 (Year 8)

Tags:

[energy types](#)

[kinetic energy](#)

[gravitational potential energy](#)

[gravity](#)

[mechanical energy](#)

[mass](#)

[weight](#)

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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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