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## Energy - Science by Doing

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

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](#)

[inertia](#)

[work](#)

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[simple machines](#)

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conduction  
evaporation  
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specific heat  
temperature  
light spectrum  
cyclone  
electrical energy  
electric circuit  
motor  
generator  
field  
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food energy  
food chain  
photosynthesis  
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**Publication Date:**

January, 2014

Forces and energy

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