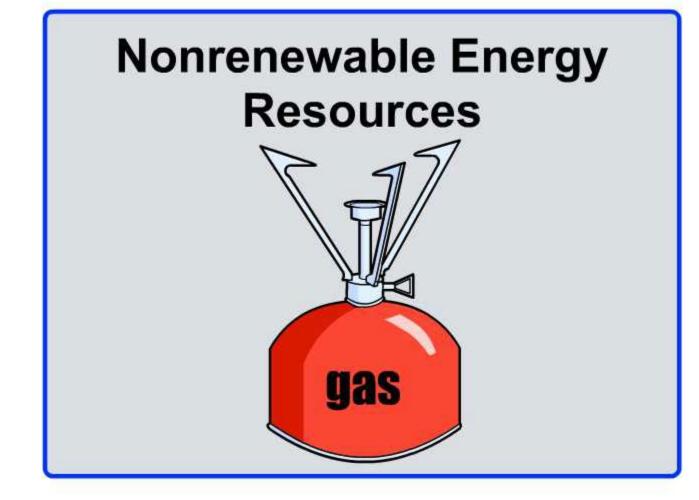
Boardworks Middle School Science

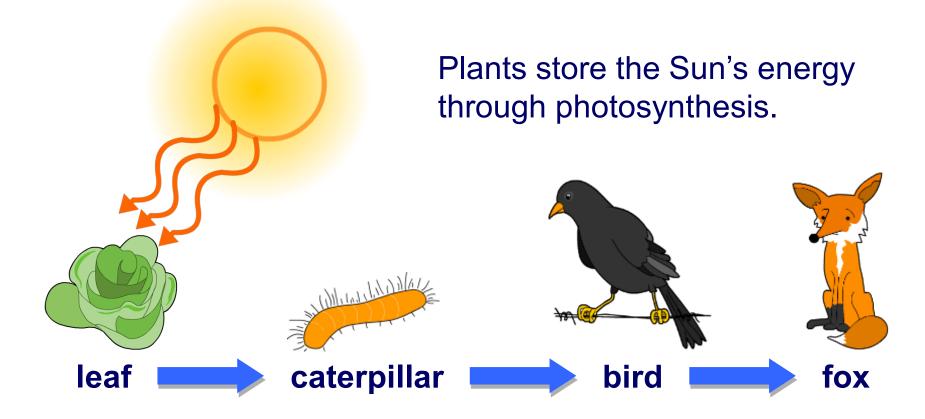


board works



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The Sun is the original source of most energy resources.

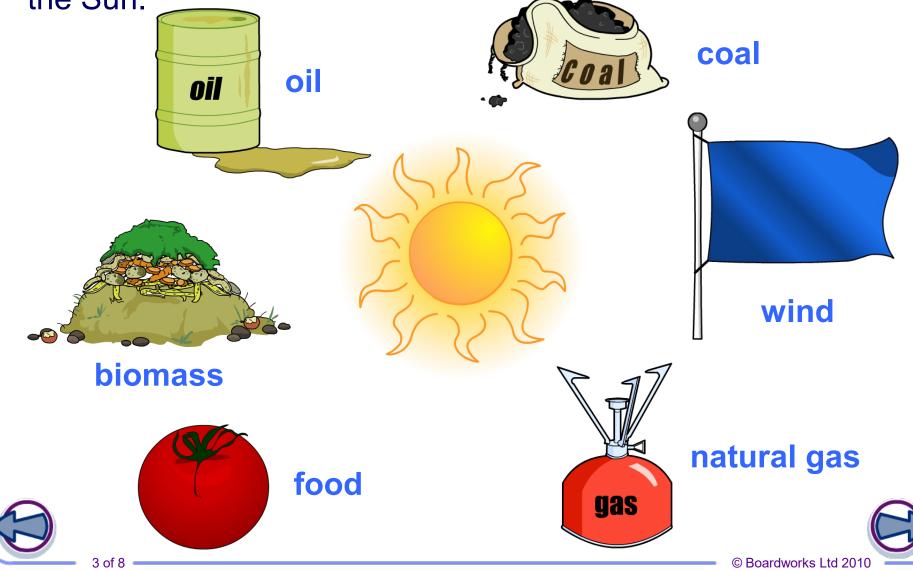


Plants are eaten by animals, which are then eaten by other animals, so the energy is passed on.

Energy resources from the Sun



The energy in all these energy resources originated from the Sun.



Nonrenewable energy resources



Oil, coal and natural gas are examples of **fossil fuels**. They were formed from biological deposits over the course of millions of years.



The amount of fossil fuel on Earth is limited. Once fossil fuels are used they cannot be replaced and will eventually run out, so they are called **nonrenewable**.



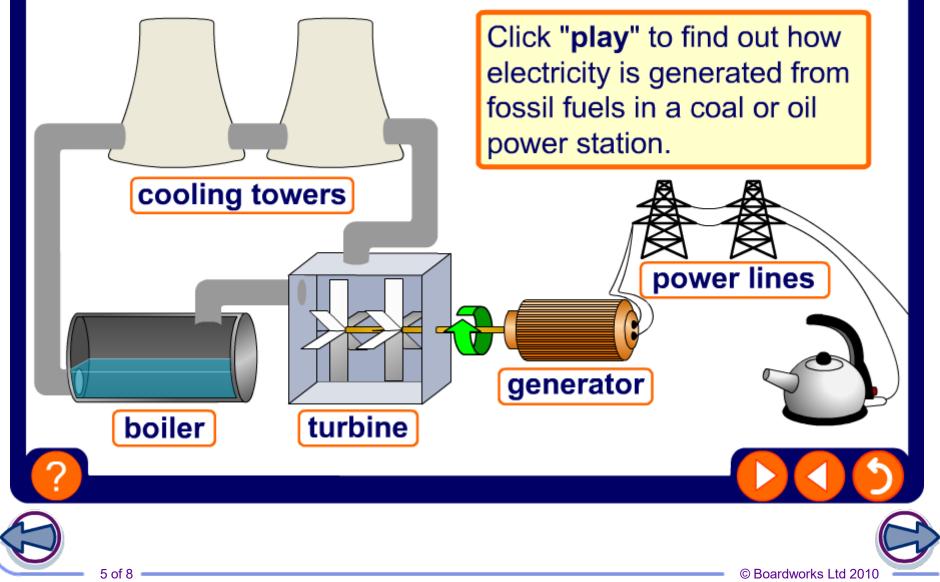
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Generating electricity from fossil fuels

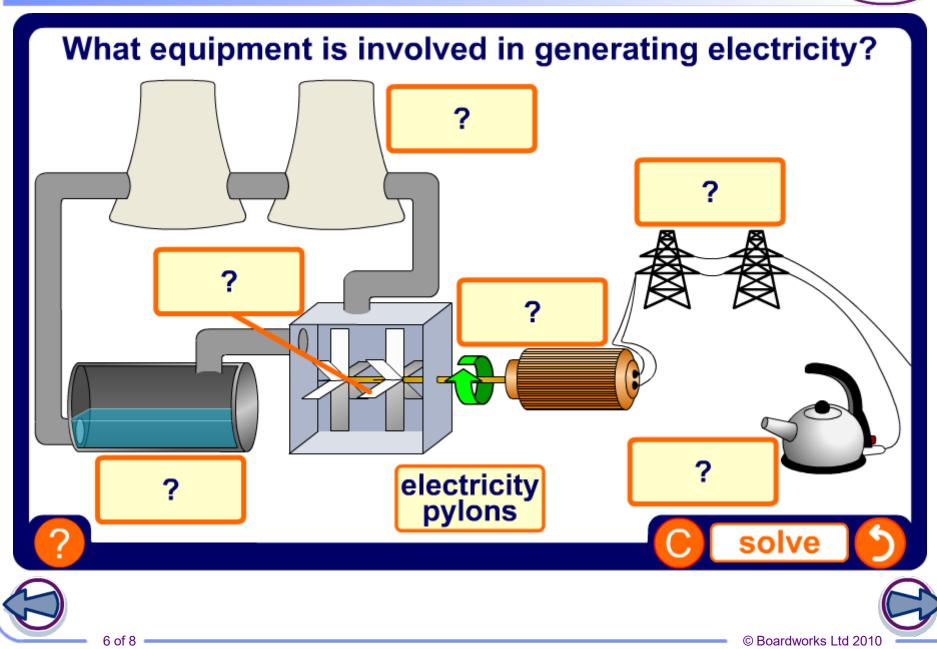


How does a coal or oil power station work?



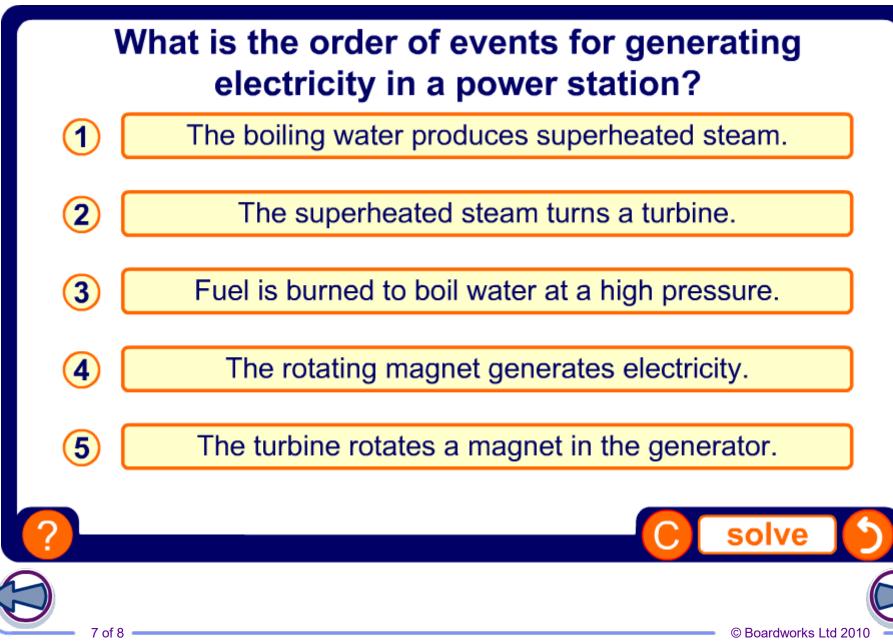
Labeling parts of a power station

(board works)



How is electricity generated?





Environmental effects of burning fossil fuels 🗊

Using fossil fuels to produce electricity has consequences for the environment.

Burning some fossil fuels creates chemicals like sulfur dioxide, which causes acid rain.



board



Burning fossil fuels also produces **carbon dioxide**, which is released into the atmosphere.

Carbon dioxide is a greenhouse gas.



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