

## Energy

All energy in the universe comes from the **sun**. Energy can occur in different forms.



The **food** we eat, the **gas** we put in our cars, and the **electricity** that light our homes can all be traced back to the sun's energy.



Plants need energy from the sun to **make food**. Heat from the sun **warms** everything on Earth.

Fuels such as **coal** and **oil** contain huge amounts of energy.



Fuels can release energy that can be changed into electricity.

Electricity can be made by using other kinds of energy found in nature, such as the wind, moving water, oil, or coal.



1. Explain where all energy comes from. [1]

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2. Name THREE things that humans use which come from the sun's energy. [3]

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3. Why do plants need energy from the sun? [1]

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4. Other than fuel, name THREE other ways electricity can be made. [3]

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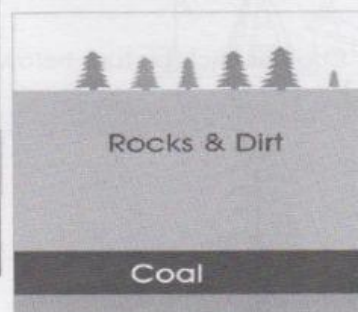
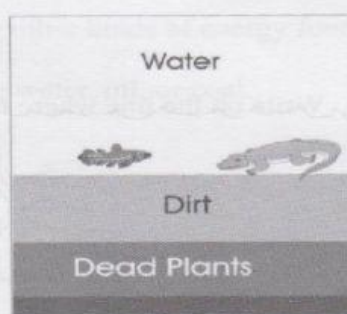
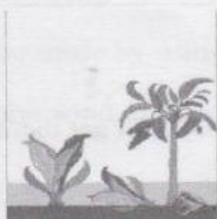
## Fuels



Heat comes from sunlight and from burning things. Things that burn and give heat are called fuels. **Oil, gas, wood, and coal** are kinds of fuels.



All living organisms store energy. When they die, their bodies are slowly buried by soil. Over many years, this material is pressed together until it turns into fuel, like oil or coal. This is called **fossil fuel**.



Gasoline and heating oil are made from fossil fuels. To release the energy stored in fossil fuels, the fuels must be burned. Burning releases heat that can be changed into other types of energy.

1. What happens when fuels are burned? [2]

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2. Where does heat come from? [1]

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3. Name THREE kinds of fuel. [3]

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4. Use the numbers 1 – 4 to put the process of how fossil fuel is made. [4]

\_\_\_ Over many years the materials are pressed together.

\_\_\_ Animals and plants die

\_\_\_ Animals and plants bodies are buried by soil.

\_\_\_ Fuel like oil and coal is made