

SOURCES OF ENERGY ON EARTH

A volcano spews hot lava during an eruption.

Where did the heat come from?

• The energy that powers a volcano is called geothermal energy.



WRIT

- Most of the geothermal energy comes from radioactivity in the Earth's core.
 - Temperatures at the core can exceed 5,000°C.
 - The heat is conducted to the rock above, which melts.
 - Convection carries the hot magma upward.
- Radioactivity is one of the major sources of energy on Earth.

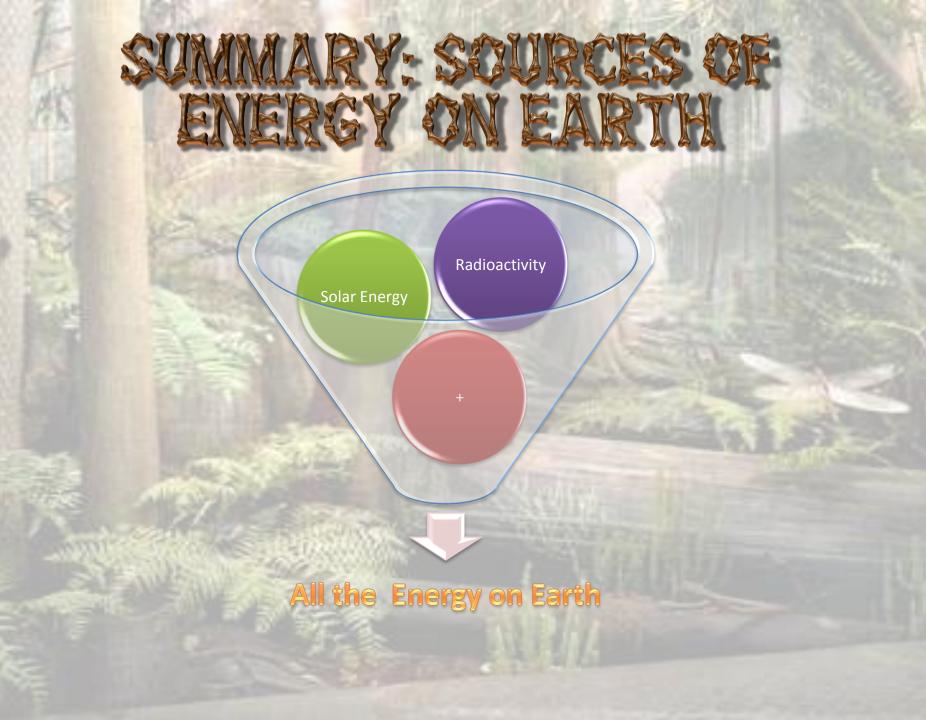


- The sun shines, warming the Earth.
- Plants bask in the sun, capturing sunlight energy and making food by photosynthesis.



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- Animals get energy and raw materials for synthesis by eating plants.
- Living things die and decompose leaving their captured solar energy in the soil.
- Solar energy is the second major source of energy on Earth.



FORMATION OF FOSSIL FUELS

- Solar energy is captured by plants and passed through the food chain.
- Solar energy is returned to earth when living things die and decay.
- The energy is trapped in fossils that form from the remains of ancient plants and animals.
- Plant oils and carbohydrates slowly turn to fossil fuels under the influence of heat and pressure over long periods of time.



- Fossil fuels are considered a nonrenewable resource because they are used much faster than they can be made.
- Burning fossil fuels causes pollution and contributes to global warming.

E	XAMPLES OF FOSSIL FUELS
	Coal
	Oil (Petroleum)
	Natural gas