

6th Grade Science SOL Review Packet

The information in this packet is for your reference as we review for the SOL. Do not lose it!

6.3 Role of Solar Energy

The Earth's energy budget

- The Earth receives only a very **small portion of the sun's energy**, yet this energy is responsible for **powering the motion of the atmosphere, the oceans, and many processes at the Earth's surface**.
- **Solar radiation** is made up of different types of radiation including **infrared, visible light, and ultraviolet**. (Know terms **wavelength; ultraviolet, visible, and infrared radiation; and reflection and absorption**.)
- Incoming solar radiation is in **close balance** with the **energy that leaves the atmosphere**; otherwise the Earth would heat up or cool down. (Analyze and interpret a chart or diagram showing the **Earth's energy budget**.)
- **Excess carbon dioxide** and other gases may disrupt this balance, creating a **Greenhouse Effect**. (Explain the Greenhouse Effect in terms of the energy entering and leaving the atmosphere.)
- About **one third** of the sun's incoming energy is **reflected back out to space**. About **one half** of the energy striking the Earth is **absorbed by the Earth's surface**.

Radiation and convection distribute heat energy around the globe

- The Earth's surface is **heated unequally**.
- When air or water is **heated**, the molecules move **faster and farther apart**, reducing their density, causing them to **rise**. **Cooler air or water molecules move more slowly and are denser** than warm air or water. Warm air or water rising coupled with cooler air or water descending forms a **cyclic rising/falling pattern called convection**.
- **Radiation and convection from the surface transfer heat energy**. This energy powers the global circulation of the atmosphere and the oceans on our planet. (Students should analyze and explain how convection currents occur, and how they distribute heat energy in the atmosphere and oceans.)

1. The sun's energy contributes to powering the motion of the _____, the oceans, and other processes at the Earth's _____.
2. What types of radiation is solar radiation made of?
3. Earth's energy budget explains that incoming energy from the sun is in _____ with energy that leaves the atmosphere.
4. What type of gas contributes to the greenhouse effect?
5. Explain how convection occurs on the Earth for air and water.

6.5 Properties of Water

Water's Role in Physical and Chemical Weathering

- Water (rain, ice, snow) has shaped our environment by physically and chemically **weathering rock** and soil and **transporting sediments**.
- Freezing water can **break rock** without any change in the minerals that form the rock (**physical weathering**). This usually produces small particles and sand.
- Water with dissolved gases and other chemicals causes the minerals in rocks to be changed, leading to the deterioration of the rock (**chemical weathering**).
- Examples of chemical weathering: **acidified water** on building material such as **concrete, limestone, or marble** causes chemical weathering.

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Roderick McDaniel



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Telegraphic Journal and Monthly Illustrated Review of Electrical Science ,1963 **Virginia Journal of Education** ,1959 **Metropolitan Detroit Science Review** ,1971 **Subject Guide to Books in Print** ,1993 **Transactions** Illinois Society for Child-Study,1894 **Bibliographic Guide to Education** ,1991 lists publications cataloged by Teachers College Columbia University supplemented by The Research Libraries of The New York Public Library **World Science Review** ,1955

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