

Name _____

The Sun's Radiant Gift: How Solar Energy Reaches Earth

Multiple Choice Questions

1. What is the primary source of energy for Earth?
 - a) Geothermal energy
 - b) Wind energy
 - c) Solar energy
 - d) Fossil fuels

2. How long does it take for solar energy to travel from the Sun to Earth?
 - a) 1 hour
 - b) 24 hours
 - c) Just over 8 minutes
 - d) 365 days

3. Which portion of the electromagnetic spectrum is responsible for the Sun's brightness and the colors we see?
 - a) Ultraviolet (UV) light
 - b) Infrared (IR) radiation
 - c) Visible light
 - d) X-rays

4. What role does Earth's atmosphere play in the journey of solar energy?
 - a) It speeds up the travel of solar energy.
 - b) It blocks all solar energy from reaching the surface.
 - c) It acts as a filter, allowing some types of solar energy to pass through while absorbing or scattering others.
 - d) It has no effect on solar energy.

5. How does Earth's atmosphere protect us from harmful ultraviolet (UV) radiation?
 - a) It absorbs and scatters UV radiation.
 - b) It enhances the effects of UV radiation.
 - c) It has no impact on UV radiation.
 - d) It amplifies UV radiation.

