

# 6th grade earth science study guide

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- 1. What is the Earth's atmosphere composed of?** Answer: Nitrogen (78%), Oxygen (21%), Argon (0.9%), and other trace gases.
- 2. Describe the different layers of the Earth's atmosphere.** Answer: From the Earth's surface upwards, the layers are: Troposphere (where weather occurs), Stratosphere (where ozone layer is found), Mesosphere, Thermosphere, and Exosphere.
- 3. What is the process by which the Earth's crust moves called?** Answer: Plate tectonics.
- 4. Name the three types of plate boundaries and explain their characteristics.** Answer: **Convergent:** Plates move towards each other, leading to collisions, subduction, and mountain formation. **Divergent:** Plates move away from each other, creating new crust. **Transform:** Plates slide past each other horizontally, causing earthquakes and fault lines.
- 5. What is the name of the theory that explains the formation and evolution of the universe?** Answer: Big Bang Theory.
- 6. What evidence supports the Big Bang Theory?** Answer: The cosmic microwave background radiation, the expansion of the universe, and the abundance of light elements.
- 7. What are the different types of rocks and how are they formed?** Answer: **Igneous:** Melted rock that cools and solidifies. **Sedimentary:** Accumulated layers of sediment that compress and cement together. **Metamorphic:** Existing rock that

undergoes heat, pressure, or chemical changes, altering its structure.

**8. Describe the different types of soil and their characteristics.** Answer: **Sandy:** Loose, well-drained, and contains large particles. **Clay:** Fine-grained, compact, and holds water well. **Loam:** A mixture of sand, silt, and clay with good drainage and fertility.

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