

During the formation of the solar system, the inner planets were characterized by high temperatures and weak fields of gravity. As a result, the inner planets were not able to hold onto the lighter gases of the nebular cloud. The lightest gases, hydrogen and helium, were whisked away toward the heavier planets by the solar wind. Earth, Mars, and Venus were able to retain some heavier gases including water vapor and carbon dioxide. The materials that formed the outer planets contained mostly hydrogen and helium, but also high percentages of water, carbon dioxide, ammonia, and methane, in addition to rock and metal cores. Because of their large size, the outer planets' gravity was strong enough to hold all of these gases.

Layers Form on Earth Shortly after Earth formed, the decay of radioactive elements, combined with heat released by colliding particles, produced some melting of its interior. This allowed the denser elements, mostly iron and nickel, to sink to Earth's center because of gravity. The less dense, rocky components floated outward, toward the surface. This sinking and floating is believed to still be occurring, but on a much smaller scale. As a result of this process, Earth's solid interior is not made of uniform materials; it consists of distinct layers with different properties.

An important result of the layering process is that gaseous materials were allowed to escape from Earth's interior, just as gases escape today during volcanic eruptions. In this way, an atmosphere consisting mainly of the released gases gradually formed along with the ocean.

 **Reading Checkpoint** Why does Earth have layers?



1.1 Assessment

Review Key Concepts

1. What are the sciences that are included in Earth science?
2. What topics are included in the study of physical geology?
3. Explain how physical geology differs from historical geology.
4. Describe the nebular theory.

Think Critically

5. **Infer** Would meteorology be a useful science to apply to the study of Mercury, the innermost and smallest planet? Explain.

6. **Relate Cause and Effect** Where did gases in Earth's atmosphere come from?
7. **Form a Hypothesis** Suppose that as Earth formed, all lighter elements were released to surrounding space. How might this affect the structure of Earth today?

CONNECTING CONCEPTS

8. **Summarize** Earth science includes many different areas of study. Why is it important to include all of these areas in the study of Earth and the solar system?

Earth Matters Workbook Answers

CO Houle



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