

# 7<sup>th</sup> Grade Study Guide

## Chapter 15

### Atmosphere

#### **EARTH'S ATMOSPHERE** Section 1

- List the atmosphere's major components and their percentages.
- Identify the solids and liquids found in the atmosphere.
- Describe the characteristics of the five layers of the atmosphere including temperature and pressure.
- Describe the ionosphere and the ozone layer and their characteristics.

#### **ENERGY TRANSFER IN THE ATMOSPHERE** Section 2

- Describe the three ways energy is transferred in the atmosphere.
- Illustrate the water cycle.

#### **AIR MOVEMENT** Section 3

- Describe how wind is formed.
- Explain how the curved surface of the Earth is affected by the sun's rays.
- Describe how the Coriolis effect works.
- Share the characteristics of the four major surface wind patterns of the Earth.
- Define jet stream.
- Compare and contrast land and sea breezes.



"Relax, Worthington. ... As the warm, moist air from the jungle enters the cave, the cool, denser air inside forces it to rise—resulting in turbulence that sounds not unlike heavy breathing."