

# CHAPTER 24: EARTH, MOON, AND SUN

## ESC-1 GUIDED NOTES

### SECTION 24.1 – PLANET EARTH

#### LESSON OBJECTIVES

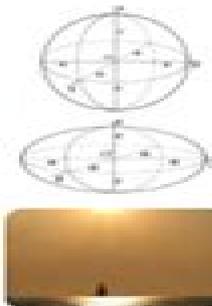
- Recognize that Earth is a modified sphere (oblate spheroid), and describe the evidence for this conclusion.
- Explain what causes Earth's magnetism and the effects that magnetism has on the Earth.
- Describe Earth's rotation on its axis.
- Describe Earth's revolution around the Sun.

#### INTRODUCTION

- This whole semester we focused entirely on the processes of Earth
- This chapter is concerned with Earth as a planetary body
  - Earth's shape
  - Earth's magnetism
  - Earth's motions
    - ◆ rotation
    - ◆ revolution

#### EARTH AS A PLANETARY BODY

- Earth's Shape
  - generally regarded as a Sphere
  - BUT is actually an Oblate spheroid (squished down at the poles and bulges a bit at the equator)
- Earth's hemispheres
  - northern hemisphere: half of the oblate spheroid Above the equator
  - southern hemisphere: half of the oblate spheroid Below the equator
- Evidence of Earth's shape
  - while standing on shore observing a ship going out to sea, ship gets smaller as it moves farther away but the ship's bottom also starts to disappear as the vessel goes around the arc of the planet
- Earth's magnetic field
  - Earth's magnetic field behaves like a gigantic bar magnet
  - Magnetic field arises from the Convection of molten iron and nickel metal in Earth's outer liquid Core
  - Extends several thousand kilometers into space
  - Shields planet from harmful Radiation from the Sun



# Chapter 24 Earth Resources Study Key

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R. Finer**

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