

## Chapter 23 “Touring Our Solar System”

### **23.1 - The Solar System**

- The sun is the hub of a huge rotating system of planets, their satellites, and numerous smaller celestial (sky) bodies
- About 99.85% of the mass of our solar system is contained within the sun. The other 0.15% is mostly made up by the planets
- What are the order of the planets (closest to sun → farthest to sun):
- Mercury → Venus → Earth → Mars → Jupiter → Saturn → Uranus → Neptune



- The planets are held by the sun's gravitational force, each planet moves in an elliptical orbit, and all travel in the same direction
- The nearest planet to the sun (mercury) has the fastest orbital motion at 48 km/sec and it has the shortest period of revolution
- The farthest planet to the sun (neptune) has an orbital speed of 5km/sec and it requires 165 Earth years to complete one revolution

#### **The Planets: An Overview**

- Terrestrial planets
  - Mercury, Venus, Earth, and Mars
  - Relatively small and rocky
  - They are Earth-like planets
  - They are called the inner planets because they are the closest to the sun
- Jovian planets
  - Jupiter, Saturn, Uranus, and Neptune
  - Huge gas giants
  - They are Jupiter-like planets
  - Often called giants

# Chapter 23 Touring Our Solar System Answer Key

**Victor M. Corman**



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