Name Period Date

SECTION 2.1 | EARTH ROTATES ON A TILTED AXIS AND ORBITS THE SUN.

Reading Study Guide

BIG IDEA Earth and the Moon move in predictable ways as they orbit the Sun.

KEY CONCEPT Earth rotates on a tilted axis and orbits the Sun.

Review

Earth orbits the Sun.

Take Notes

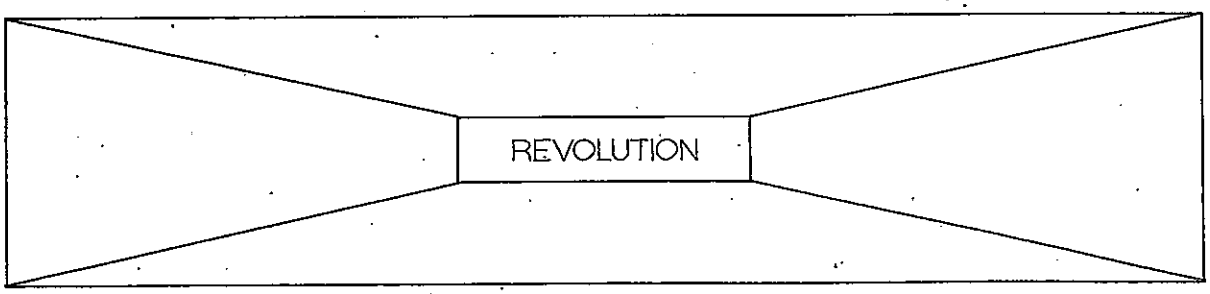
I. Earth's rotation causes day and night. (p. 43)

1. Fill in the combination notes for the main idea shown.

Notes	Sketch
As Earth turns, so do you. • You keep the same position on Earth. • The view above your head changes. The directions north, south, east, and west are based on the way the planet turns. • _____ • _____ At any one time, half of Earth is in sunlight. • _____ • _____	

II. Earth's tilted axis and orbit cause seasons. (p. 45)

2. Fill in the frame game diagram for *revolution*.



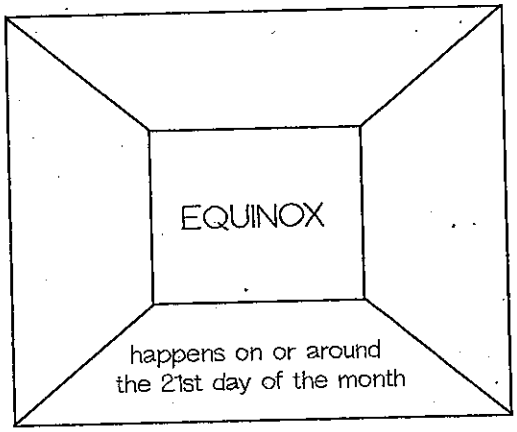
3. How long does one revolution of Earth around the Sun take? _____

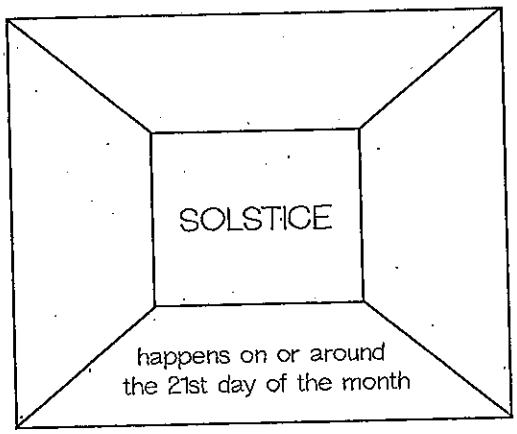
A–B. Seasonal Patterns, Angles of Sunlight, and Lengths of Days (p. 46)

4. Fill in the combination notes for the main idea shown.

Notes	Sketch
Seasons are patterns of • temperature changes • _____ Seasons occur because of • _____ • _____	

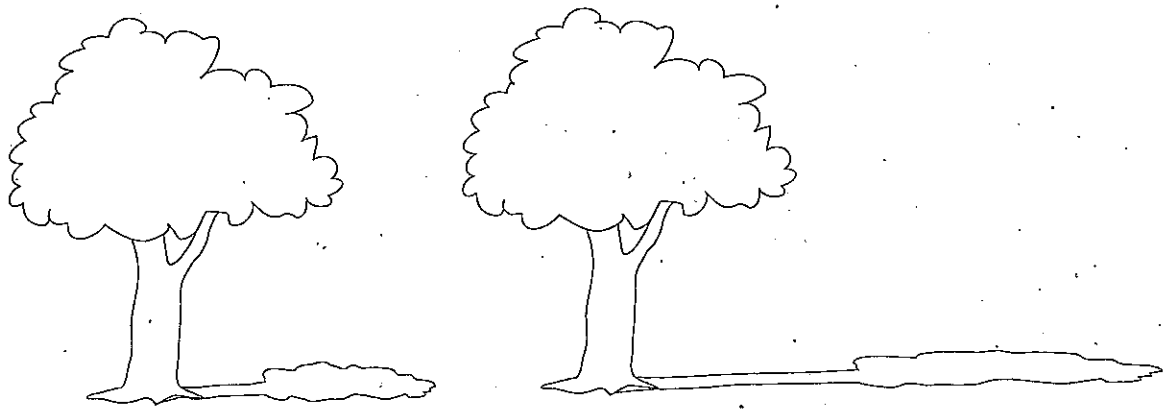
5. Fill in the frame games for *equinox* and *solstice*.





6. Both pictures below were taken at the same time of day, but one picture was taken in summer, and the other in winter. How can you tell which picture was taken in winter?

_____



Name Period Date

SECTION 3.1 | PLANETS ORBIT THE SUN AT DIFFERENT DISTANCES.

Reading Study Guide

BIG IDEA Planets and other objects form a system around our Sun.

KEY CONCEPT Planets orbit the Sun at different distances.

Review

Earth orbits the Sun.

Take Notes

I. Planets have different sizes and distances. (p. 79)

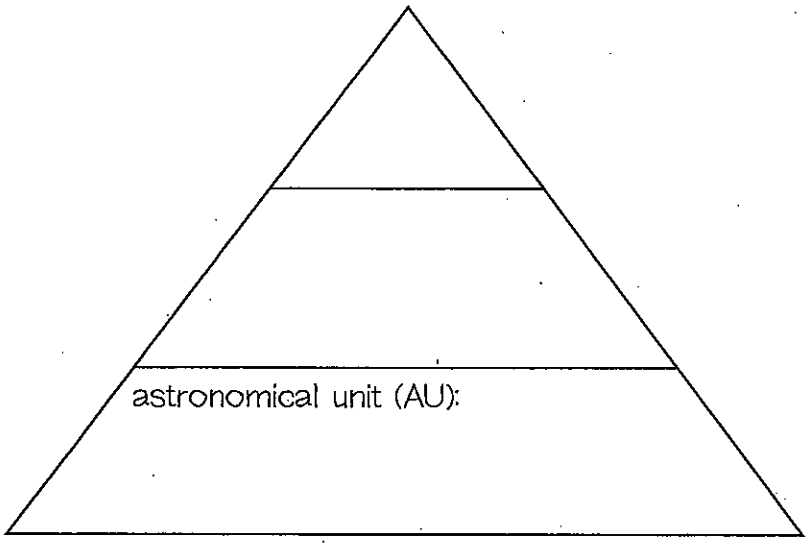
1. List and describe four of the different types of objects in the solar system.

_____

_____

A. Distances (p. 81)

2. Fill in the word triangle diagram for *astronomical unit*.



3. The diagram below shows the spacing of the planets from the Sun. Label the inner solar system, the outer solar system, and list the planets in their correct order.

B. Orbits (p. 81)

4. Which shapes below are ellipses?

A B C D E

5. What causes planets to orbit the Sun?

_____

II. The solar system formed from a swirling cloud of gas and dust. (p. 82)

6. Fill in the main idea and detail notes for the main idea shown.

Main Idea	Detail Notes
1. Planets orbit the Sun in similar ways.	A. The paths are almost in a flat plane. B.
2. The solar system formed out of a huge cloud of a variety of materials.	A. B.