

# All About the Solar System

## Unit Test

### Answer Key

**Part 1: Fill in the Blank.** *Fill in the blank with the correct word from the word bank.*

<b>Nuclear Fusion</b>	<b>Milky Way Galaxy</b>	<b>Heliocentric</b>	<b>Outer</b>
<b>Two</b>	<b>Core</b>	<b>Nine</b>	<b>Total</b>

- 1) The Solar System is made up of **nine** planets.
- 2) We live in the **Milky Way Galaxy**.
- 3) Neptune is an **outer** planet.
- 4) Sunlight is the result of **nuclear fusion**.
- 5) The **Heliocentric** Theory is the theory that the Sun is the center of the Solar System.
- 6) There is about **two** inches of dust on the surface of the Moon.
- 7) A **total** eclipse is when the Sun is completely covered by the Moon.
- 8) The center of an object is called the **core**.

**Part 2:** *Circle the correct answer.*

- 1) The fourth planet is:
  - A. Earth
  - B. Pluto
  - C. Mars
  - D. Venus
  
- 2) Moons are also called:
  - A. Natural Satellites
  - B. Dwarf Planets
  - C. Constellations
  - D. Comets
  
- 3) The Hubble Telescope is expected to stay in orbit for:
  - A. 100 years
  - B. 15 years
  - C. 20 years
  - D. 5 years
  
- 4) The first person to walk on the Moon was:
  - A. John Glenn
  - B. Alan Shepherd
  - C. Yuri Gagarin
  - D. Neil Armstrong
  
- 5) The telescope was invented by:
  - A. Sir Isaac Newton
  - B. Hans Lippershey
  - C. Galileo Galilei
  - D. Michael Collins
  
- 6) A group of stars that form a recognizable pattern is called a:
  - A. Meteoroid
  - B. Sunspot
  - C. Galaxy
  - D. Constellation
  
- 7) The number of dwarf planets in the Solar System is:
  - A. 2

B. 5

C. 1

D. 9

8) The center of the Solar System is the:

A. Moon

B. Earth

C. Milky Way Galaxy

D. Sun

**Part 3: Which Astronomer Is It?** Read through each statement. If it refers to *Galileo Galilei*, write a "G". If it refers to *Nicolaus Copernicus*, write "C". If it refers to *Sir Isaac Newton*, write "N".

1) I was born in Woolsthorpe, England. **N**

2) I developed the Heliocentric Theory. **C**

3) I discovered that the Moon has craters. **G**

4) I discovered gravity. **N**

5) I explained that the stars moved because of the Earth. **C**

6) I experimented a lot and developed the "Scientific Method". **G**

7) I stated that an object in motion tends to stay in motion. **N**

8) I am sometimes called the "Father of Modern Astronomy". **C**

**Part 4: True or False.** Read through each statement. Write "T" for true. Write "F" for false.

- 1) **T** Ursa Minor is also called the "Little Dipper."
- 2) **F** There are six different types of stars.
- 3) **F** Pluto is considered a dwarf star.
- 4) **T** Lunar eclipses last longer than solar eclipses.
- 5) **T** Radiation from the Sun escapes through the photosphere.
- 6) **F** Nebula is the term used to describe the death of a star.
- 7) **T** The Moon does not emit light.
- 8) **F** The "Gas Giants" are the planets closest to the Sun.

**Part 5: Short Answer.** Answer each question.

- 1) What is gravitational pull?

**Gravitational pull is the invisible force that pulls objects toward an object with greater mass.**

- 2) What is a supernova?

**A supernova is the death of a star.**

- 3) Explain the difference between a solar eclipse and a lunar eclipse.

**A solar eclipse is when the Moon passes in front of the Sun; the Moon is between the Earth and the Sun. A lunar eclipse is when Moon passes through the shadow of the Earth; the Earth is between the Sun and the Moon.**

**Part 6: Inner or Outer?** Read through each fact and write it in the correct column.

Smaller in size	Have many moons	Spin slower
Made mostly of gas	Solid, rocky surfaces	Orbit the Sun slower
Orbit the Sun quicker	Jupiter	Known by ancient astronomers
Do not have rings	Spin faster	Larger in size

<b>Inner Planets</b> <b>Smaller in size</b>	<b>Outer Planets</b> <b>Larger in size</b>
<b>Solid, rocky surfaces</b>	<b>Made mostly of gas</b>
<b>Known by ancient astronomers</b>	<b>Spin faster</b>
<b>Spin slower</b>	<b>Orbit the Sun slower</b>
<b>Orbit the Sun quicker</b>	<b>Have many moons</b>
<b>Do not have rings</b>	<b>Jupiter</b>



**Extra Credit: Phases of the Moon.** Draw and label three phases of the Moon.

