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.

<table>
<thead>
<tr>
<th>Nuclear Fusion</th>
<th>Milky Way Galaxy</th>
<th>Heliocentric</th>
<th>Outer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two</td>
<td>Core</td>
<td>Nine</td>
<td>Total</td>
</tr>
</tbody>
</table>

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
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.

<table>
<thead>
<tr>
<th>Smaller in size</th>
<th>Have many moons</th>
<th>Spin slower</th>
</tr>
</thead>
<tbody>
<tr>
<td>Made mostly of gas</td>
<td>Solid, rocky surfaces</td>
<td>Orbit the Sun slower</td>
</tr>
<tr>
<td>Orbit the Sun quicker</td>
<td>Jupiter</td>
<td>Known by ancient astronomers</td>
</tr>
<tr>
<td>Do not have rings</td>
<td>Spin faster</td>
<td>Larger in size</td>
</tr>
</tbody>
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**Inner Planets**
- Smaller in size
- Solid, rocky surfaces
- Known by ancient astronomers
- Spin slower
- Do not have rings

**Outer Planets**
- Larger in size
- Made mostly of gas
- Spin faster
- Orbit the Sun slower
- Have many moons
- Jupiter

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