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الوطنية الأرثوذكسية  
الشميساني

The National  
Orthodox School  
Shmaisani

## The National Orthodox School /Shmaisani

**Subject: Science/ Physics**

**Name: .....Key .....**

**Title: Worksheet 1-  
Unit 5: Solar System**

**Grade-Section: 6 CS -**

**Date: .....**

### **Objectives:**

- Differentiate between Earth Revolution and rotation.
- Identify different seasons in both the northern and the southern hemispheres.
- Differentiate between the solar and the lunar eclipses.
- Identify the phases of Earth's moon.

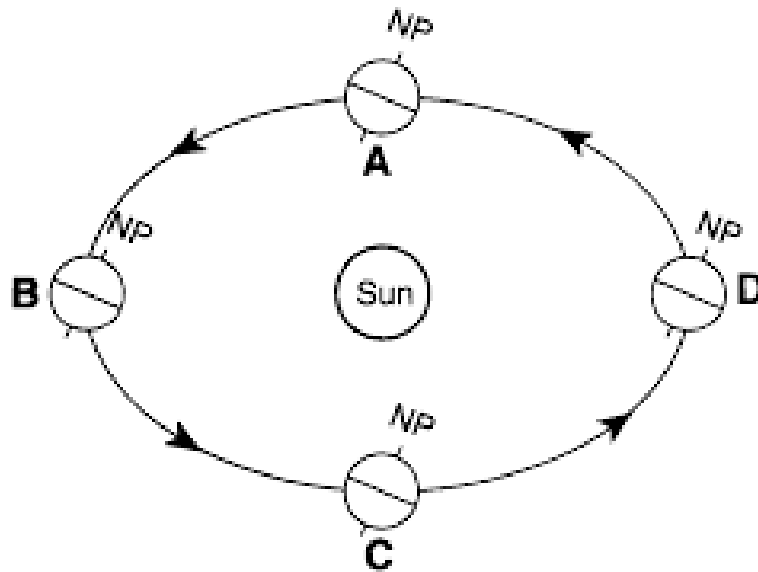
### **Question 1:**

Differentiate between Earth movements in the following table:

	<b>Revolution</b>	<b>Rotation</b>
Where does it take place?	<b>When Earth orbit the sun.</b>	<b>When Earth spins around its axis.</b>
How long does it take?	<b>365 Days / one year</b>	<b>24 hours / one day</b>
What occurs because of this movement?	<b>The four seasons</b>	<b>Day and Night</b>

**Question 2:**

**Study the following diagram and answer the questions that follow:**



(Not drawn to scale)

- a. Fill in the table with the **seasons each of the hemispheres** is having in each position:

	Northern Hemisphere	Southern Hemisphere
<b>A</b>	<b>Spring</b>	<b>Autumn</b>
<b>B</b>	<b>Summer</b>	<b>Winter</b>
<b>C</b>	<b>Autumn</b>	<b>Spring</b>
<b>D</b>	<b>Winter</b>	<b>Summer</b>

- b. Which hemisphere is having longer days and shorter nights at position D?

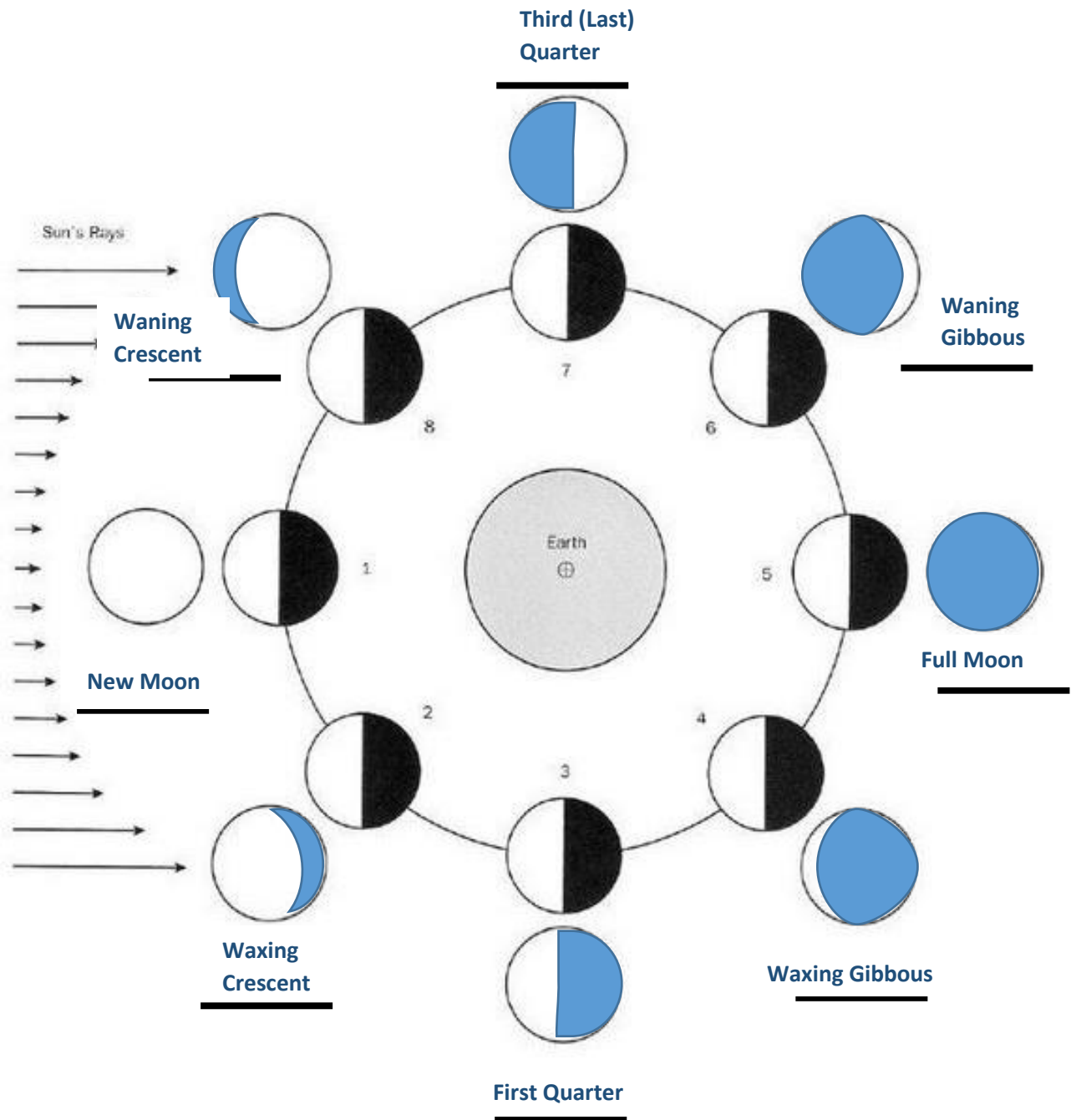
...**The southern hemisphere**.....

- c. In which hemisphere is the sun higher in the sky at position B?

.....**The northern hemisphere** .....

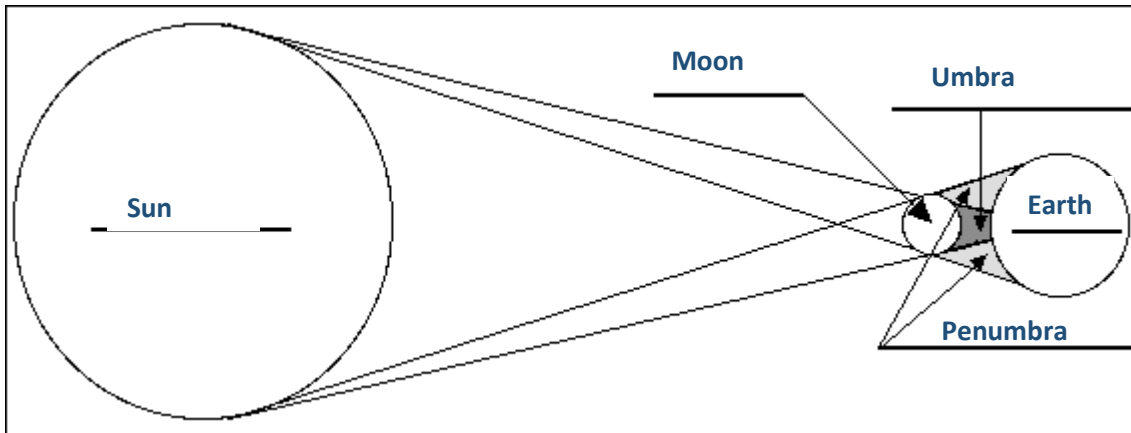
**Question 3:**

Shade the part of the moon that we can view from Earth in each position?  
And write the name of the moon in each position from 1 – 8.



**Question 4:**

1. Study the following diagram, and answer the questions that follow:



a. What type of eclipse does the diagram show? How did you know?

... **A Solar Eclipse. The moon is blocking the sunlight to Earth. The Moon also casts a shadow onto Earth. ...**

b. Which area of Earth is having a total eclipse?

... **The region in the dark shadow (umbra).** .....

c. Which area is having a partial eclipse?

... **The region in the light shadow (penumbra)**

.....

2. label the following diagram and state the type of eclipse taking place:

Eclipse type: ... **Lunar Eclipse** .....

