

Name _____ Date _____ Hour _____

Earth's Motion Study Guide

Rotation and Revolution

1. **Draw a picture** to show the **Earth rotating**. **Explain what happens due to the Earth's rotation.**

Explain: _____

2. **Draw a picture** to show the **Earth revolving**. Illustrate the Earth at each of the **solstices** and each of **equinoxes**. **Explain what happens due to the Earth's revolving about the sun.**

Explain: _____

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3. The seasons are caused by _____

4. Describe two ways the Earth moves in space

5. Earth revolves around the sun tilted on its _____.
6. How long does it take for the Earth to make a complete revolution around the sun?
_____ days Each planet makes one revolution each _____.
7. How long does it take for the Earth to make a complete rotation around the sun?
_____ hours. The time it takes for a planet to make one rotation is called a _____ on that planet.
8. At the equator it always feels _____ compared to the poles because there are more _____ rays from the sun.
9. In the winter the Earth is _____ from the sun, making it colder.
10. The day of the year that has the most amount of time between sunrise and sunset is called a(n) _____.
11. The day of the year that has the least amount of time between sunrise and sunset is called a(n) _____.
12. A day of the year where there are equal amounts of time between sunrise and sunset and sunset and sunrise is _____.

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13. Look at the picture of the Earth revolving around the sun. Label each **season** we would experience in the Northern Hemisphere according to the Earth's position.

14. The sun's rays in the summer are more _____.

15. The sun's rays in winter are more _____.

16. Explain how it can be summer in the Northern Hemisphere and winter in the Southern Hemisphere at the same time.

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