**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Textbook Guide: Rotation, Revolution & Seasons**

Use the following guide to complete the textbook reading.

**D=** Discuss with your group or partner **Map=** Complete a semantic map to represent

**WR=** Write a Response w/ the information **Skim=** Read quickly; discuss if needed

**PP=** Predict with partner or group

1. **Skim**- (p.224-231) with your partner, list all the headings and sub-headings found on these pages. (Hint= headings in red; subheadings in blue)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. **WR, Map** – (p225) Define rotation and revolution. Make sure to include a picture!

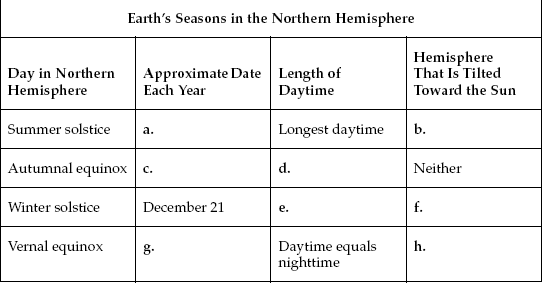
|  |  |
| --- | --- |
| **Rotation** | **Revolution** |
|  |  |

2. **D, WR**-(p. 225) - Why does the earth have day and night?

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3. **D, WR** – (p. 225-229) - Why does the Earth have seasons?

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4. **WR** - (p. 230-231) Fill in the chart.

**Textbook Guide: Phases, Eclipses, & Tides**

5. **Skim, PP**- (p.238-245) with your partner, list all the headings and sub-headings found on these pages. (Hint= headings in red; subheadings in blue). Predict why we always see the same side of the moon.

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6. **D, WR** – (p. 238) How long does it take for the moon to rotate once on its axis? How long does it take to revolve once around the Earth?

Rotate = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Revolve =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. **D, WR** – (p. 238) Why do we always see the same side of the moon?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8. **Map**, (p. 240-241) – Fill in the chart.

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| --- | --- | --- |
| **Phases of the Moon** | | |
| **Phase** | **What you see** | **Drawing** |
| New Moon |  |  |
| Waxing Cresent |  |  |
| First Quarter |  |  |
| Waxing Gibbous |  |  |
| Full Moon |  |  |
| Waning Gibbous |  |  |
| Third Quarter |  |  |
| Waning Cresent |  |  |

9. **D, WR** – (240-241) – Explain the difference between a “waxing” moon and a “waning” moon.

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10. **Map** – (p242-243) - Define solar eclipse and lunar eclipse. Make sure to include a picture that includes the Earth, moon and Sun!

|  |  |
| --- | --- |
| **Solar Eclipse** | **Lunar Eclipse** |
|  |  |

11. **PP** – what is the main cause of tides on Earth? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. **D, WR** (p. 244) Explain why there are two high tides and two low tides.

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13. **Map** (p. 244) Draw the diagram of figure 16 below, label the earth, the moon, and the four tide points. Explain, in your own words, what is occurring in this diagram.