**![C:\Users\maureen horn\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\KDIMKAV8\MC900001822[1].wmf]()Earth, Sun, and Moon- Cornell Notes Chapter 10 pages 290-301**

**Section 1-Day and Seasons on Earth Read pages 290-293 Notebook page 97**

1 .In what pattern does the Earth orbit the sun?

2. Exactly how long does one revolution take?

3. Exactly how long does it take the Earth to rotate on its axis?

4. What is a “day”?

5. Diagram the difference between a revolution and a rotation (Figure 1 page 290)

6. What causes seasons?

7. Why do we experience winter in the Northern Hemisphere?

8. Why do we experience summer in the Northern Hemisphere?

9. What is an equinox?

10. What is the relationship of daytime hours to nighttime hours all over the world during an equinox?

11. When do equinoxes occur?

12. What is a solstice?

13. When do solstices occur?

14. What will occur during the solstice next month?

15. What regions of the Earth receive about the same amount of sunlight year round and little seasonal change?

**Chapter 10, Section 2 Lunar Cycles Read pages 294-297 Notebook page 99**

1, What are the changes in the moon’s appearance called?

2. How long does it take the moon to rotate once on its axis?

3. How long does it take the moon to revolve once around the Earth?

4. What does the changing appearance of the moon over the course of the month result from?

5. What are phases?

6. Explain the terms “waxing” and “waning.”

7. What is an eclipse?

8. When does a *lunar eclipse* happen?

9. When does a *solar eclipse* happen?

10. Since eclipses happen when the Earth, moon, and Sun align, why do they not occur every month?

11. What is an *annular eclipse*?

12. What happens during a *total solar eclipse*?

13. During what moon phase do lunar eclipses occur?

**Chapter 10, Section 3-Tides, the Sun, and the Moon Read pages 298-301 Notebook page 101**

1. Define tides and tell what are they influenced by?
2. What force most affects Earth’s tides?
3. Draw the diagram on page 299.
4. Explain why the water on the Earth bulges.
5. What is another name for this bulge?
6. What happens in the areas between the bulges?
7. Why is there a bulge on the side of Earth opposite the moon?
8. What two factors affect tides?
9. Why do tides occur on Earth?
10. Why is the sun’s influence on tides less powerful than the moon’s?
11. What is tidal range?
12. What are spring tides?
13. What are neap tides?
14. Diagram figure 4 page 300.
15. What is *a tidal bore*?

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