Worksheet: Temperature (*Use sentences.) name: _____

1. *Examine figure 8 on p. 482. (The Sun is actually much larger than Earth.) Why does our part of the world get more direct rays during the summer than we get during the winter?

2. Think about what the term “annual temperature range” means. Look at the graph atop p. 489. Which city has a greater annual temperature range? (THINK!)

3. *Why does Vancouver have warmer winters and cooler summers than Winnipeg? (read p. 489)

4. *Read pages 488-493. Why are temperature variations greater over land than they are over water?

5. *Why do the Sun’s rays penetrate deeper into water than they do into land? (THINK!)

6. *Look at the table on the bottom of page 489. What happens to the annual temperature range as you get farther from the equator?

7. *Carefully read the section titled, “Geographic Position” and look at figure 16 on page 490. In what two ways are the geographic locations of Eureka, CA and New York City similar?

8. *Explain why the annual temperature range in NYC is 34 degrees F greater than Eureka’s.

9. *Look at figure 17 on page 491. Why does Spokane’s temperature vary more than Seattle’s from summer to winter? (Read p. 490)

10. *Look at figure 18 on p. 491. In what two ways are the geographic locations (not climate) of these two cities similar? (NOTE: "Being close to each other" is NOT a similarity. Also, do not put that "they are both in South America.)

11. *Why is Quito so much colder?

12. *Look at figure 19-A on p. 492. What point is illustrated here?

13. *Look at figure 19-B on p. 492. What point is illustrated here?

14. Look at the map on page 493. In July, are the hottest places on land or over water?

15. In July, are the coldest places on land or over water?

16. *What do your answers to 14-15 prove about the heating and cooling of land and water?

17. *Look at the graph on p. 589, which shows two cities in Arizona. Why are their temperatures so different?

18. *Compare the 5 graphs on pages 596-597. Which city as the greatest annual temperature range? How can you tell?

19. *Which city has the smallest annual temperature range?

20. What do the blue bars on these graphs represent?