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

**Global Winds Station Activity**

**Station 1**

1. What causes wind?
2. What does cold air do when warm air rises?
3. What is a convection current?
4. Describe, in detail, what causes a land breeze
5. Describe, in detail, what causes a sea breeze

**Station 2**

6. What causes monsoons in Southern Asia?

7. Why does Southern Asia receive such little rain in the winter?

8. How does color affect local winds?

9. Where are the sun’s rays more direct- the equator or the poles?

**Station 3**

10. Why doesn’t warm air from the equator flow directly to the poles?

11. What are the three wind belts?

12. Describe the movement of the prevailing westerly wind

13. Describe the movement of the polar easterly wind

14. Describe the movement of the trade winds

**Station 4**

15. What is the jet stream and which layer of the atmosphere is it located?

16. How fast does the jet stream move?

17. The jet stream moves from west to east. If a pilot was travelling from California to Pennsylvania, would it be advantageous for the pilot to fly in the jet stream? Explain

18. Would a plane fly slower or faster if it was flying in the jet stream from Pennsylvania to California?

 **Station 5**

19. When do fronts occur?

20. Describe what happens in a cold front and state what type of weather it brings

21. Describe what happens in a warm front and state what type of weather it brings

22. Describe what happens in an occluded front and state what type of weather it brings

**Station 6**

23. What is the Coriolis Effect and what causes it?

24. How does the Coriolis Effect influence objects, wind, and water at the equator? Explain

25. Describe the strength of the Coriolis Effect as you move from the equator to the poles