

Worksheet

12

1. Define the term wind.

movement of air above Earth's surface

2. Air moves from high to low pressure.

3. What are the trade winds? Where do they occur? In what direction do they move in the Northern Hemisphere?

• easterly winds found in the tropics

• 0-35°

• from the NE

4. What are the prevailing westerlies? Where do they occur? In what direction do they move in the Northern Hemisphere?

• winds in the middle latitudes

• 35-65°

• from the SW

5. What are the polar easterlies? Where do they occur? In what direction do they move in the Northern Hemisphere?

• dry, cold winds in the polar regions

• 65-90°

• more SW from the pole

6. The Coriolis effect is a result of the rotation of the Earth.

7. Objects in the Northern Hemisphere are deflected to the right by the Coriolis effect.

7

8. Objects in the Southern Hemisphere are deflected to the left by the Coriolis effect.

9. Winds near the equator will be deflected less than winds near the poles.

10. In the Northern Hemisphere, air flows around a low pressure area in a ccw direction.

11. In the Northern Hemisphere, air flows around a high pressure area in a cw direction.

12. What are the jet streams? Where does the jet stream occur? In what direction does the jet stream move?

- fast moving air at high altitude
- at top of troposphere
- east