

Name:

Date:

**Science 10**  
**Global Winds**  
**Formative Assessment**

**Specific Curriculum Outcomes:**

- use weather data to describe and explain heat transfers in the hydrosphere and atmosphere, showing how these affect air and water currents
- illustrate and display how science attempts to explain seasonal changes and variations in weather patterns for a given location

**Word Bank:**

*farrell*  
*four*  
*hadley*  
*left*

*polar*  
*polar easterlies*  
*prevailing westerlies*  
*right*

*three*  
*trade*  
*two*

- Convection currents in the troposphere create \_\_\_\_\_ cells in each hemisphere.
- The northernmost cell is called the \_\_\_\_\_ cell.
- In North America, the Coriolis effect causes items to deflect to the \_\_\_\_\_.
- The \_\_\_\_\_ winds move from 30 degrees North towards the equator.
- The winds that blow across Nova Scotia, coming up from the United States are the \_\_\_\_\_.