

# Global Winds Diagram

## Procedures:

1. Pick TWO colored pencils, one for **Calm Regions** and one for **Wind Belts**. Mark the key with the selected colors.
2. Highlight 60°N, 30°N, 0°, 30°S and 60°S with the color selected for the Calm Regions.
3. Label 30°N and 30°S as **Horse Latitudes** with the selected color for the Calm Regions.  
*The Horse Latitudes are said to be named as such because when sailing ships loaded with horses, sailors would generally get stuck in these calm areas with no wind. They could not keep feeding their horses, so they had to send them overboard!*
4. Label 0° as the **Doldrums** with the selected color for the Calm Regions.  
*The Doldrums are another calm region. These calm regions happen where wind belts meet and run parallel to each other. If you are feeling down in the dumps, moping around and not doing a whole lot, you are said to be “stuck in the doldrums.”*
5. Rotate your paper 90° counterclockwise (left).
6. Using the Convection Currents on the right side (now the top) of the diagram, label the following lines of latitude (90°N, 60°N, 30°N, 0°, 30°S, 60°S and 90°S) as **HIGH (H)** or **LOW (L)** air pressure systems. \*\*Label them in the space provided on the paper.  
*REMEMBER: Air sinks at high pressure systems and air rises at low pressure systems.*
7. Rotate your paper back to normal. Label the following areas with the color selected for the wind belts:
  - a. Between 90°N - 60°N and 60°S - 90°S as the **Easterlies**.
  - b. Between 60°N - 30°N and 30°S - 60°S as the **Westerlies**.
  - c. Between 30°N - 0° and 0° - 30°S as the **Trade Winds**.
8. Below the Key to the diagram, add the type of circular movement created in the northern and southern hemisphere due to the Coriolis Effect. North = clockwise; South = counterclockwise
9. Using the surface wind direction shown by the convection currents on the diagram and the influence of the Coriolis Effect in the northern and southern hemisphere, draw a curved arrow to represent the movement of air for each of the six wind belts. Use the color selected for wind belts to draw the arrows. Draw these arrows between the lines of latitude.

*\*\*REMEMBER! Air always moves from high pressure to low pressure. So start drawing your arrow and then curve it in the correct direction according to the Coriolis Effect.*

# Global Wind Belts

