Explaining the Circulation of Air

Objectives: describe how the rotation of Earth affects patterns of atmospheric wind circulation
CURRENT EVENTS
I. The Effect of Earth’s Rotation
II. Wind and the Coriolis Effect

The effect of Earth’s rotation on the pathway of wind - Coriolis Effect - as Earth spins, wind in both hemispheres curves.

At the poles where the air is cooler there are high pressure bands.

At the equator, where there is more solar energy, there are low pressure bands.

Coriolis Effect prevents winds from flowing directly from the poles to the equator.
Complete numbers 11 and 12 on page 12
A. Formation of Wind Belts

Patterns of vertically moving air, curving horizontal winds, and bands of high and low pressure forms three wind belts in each hemisphere.
III. Global Winds

The unequal heating of Earth surface and the Coriolis effect causes distinct patterns of global winds.
In your notebooks create the global wind flip chart.

Make sure you include information like…

● Where each wind pattern is located
● Brief description of the weather pattern
● reason(s) it is named what it is

You will be quizzed in this information!!!
In your evidence notebook

How might the global winds contribute to the movement of dust from the Sahara to the Amazon?
Do the math

Page 14 in your workbooks

Compare the Hemispheres