

NAME _____ Period _____

Earth Science Wind WebQuest

Part 1. Coriolis Effect

1. The Coriolis Effect affects Earth's winds. Read the information at this website to find out about the Coriolis Effect: [http://ww2010.atmos.uiuc.edu/\(Gh\)/guides/mtr/fw/crls.rxml](http://ww2010.atmos.uiuc.edu/(Gh)/guides/mtr/fw/crls.rxml)

Click on the "Pressure Gradient" link. What is the direction of the net force between two pressure systems?

From _____ pressure to _____ pressure.

2. The video at the bottom will give you a visual of the Coriolis Effect.
 - a. In the video, why does the ball not roll straight across the merry-go-round?
 - b. How is the Earth similar to the merry-go-round? (look at the figure)
 - c. What happens to objects in the Northern Hemisphere as a result of the Coriolis Effect?
 - d. Wind is an object that is affected by the Coriolis Effect. What happens to winds in the Northern Hemisphere as a result of the Coriolis Effect?

Part 2. Global Wind Patterns

- A. Fill in the boxes on page 2 with the requested information. I would suggest attempting to do this without any help (review for your quiz tomorrow!) before referencing your notes or the website.
- B. Label the winds on the globe (page 3). Make sure that you write your answer on the correct lines! Once again, I would suggest attempting to do this on your own before using resources such as your notes or the website listed.

What is Wind?

What are global wind patterns?

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What causes the wind to blow?

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What are the Trade Winds?

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What are the Doldrums?

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What is the jet stream?

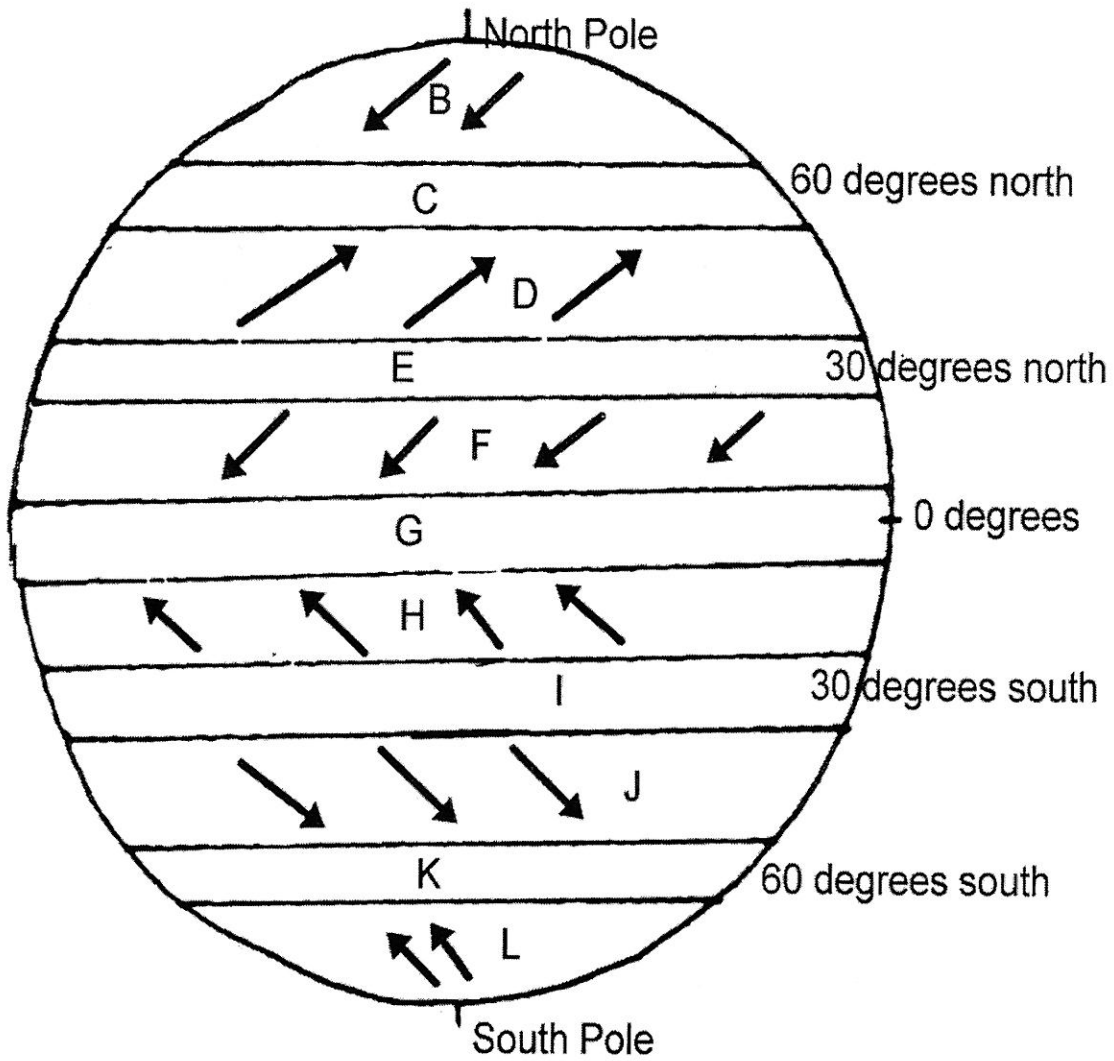
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What are the prevailing westerlies?

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Wind Web Quest

Label the winds on the globe below. The latitudes have been given to you.



- B. _____
- C. _____
- D. _____
- E. _____
- F. _____
- G. _____
- H. _____
- I. _____
- J. _____
- K. _____
- L. _____