

The Coriolis Effect

If you got on a plane in New York City and wanted to fly to Miami, could you fly in a straight line to get there? Why or why not? **no**

Earth rotates and if you are not attached to it, it spins under you.

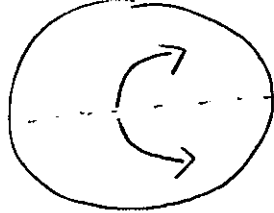
→ Does the Earth rotate @ the same speed @ N Pole & Equator? **fastest @ equator**

Predict what direction you think the line will turn when paper is rotated clockwise and counterclockwise. Draw your prediction below.

CLOCKWISE



Earth



COUNTERCLOCKWISE Northern Hemisphere



In the space below, draw the direction the line turned AFTER completing the rotations.

CLOCKWISE



COUNTERCLOCKWISE



Did you predictions agree with your results? **yes**

Which way does the Coriolis Effect cause objects to be deflected in the Northern and Southern hemisphere?

Northern Hemisphere – objects are deflected to the east (right).

Southern Hemisphere – objects are deflected to the east (left).

How does the spin of the Earth affect the oceans and air masses?

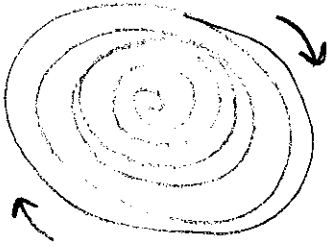
ocean currents will travel clockwise in northern hemisphere
but ~~o~~ air mass will be counterclockwise

The Coriolis Effect

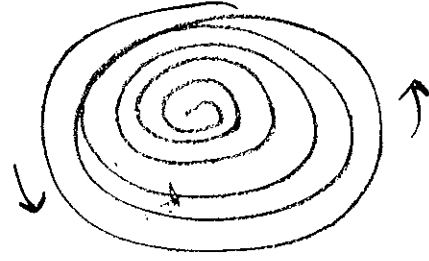
If you got on a plane in New York City and wanted to fly to Miami, could you fly in a straight line to get there? Why or why not? No. Because of rotation of earth.

Predict what direction you think the line will turn when paper is rotated clockwise and counterclockwise. Draw your prediction below.

CLOCKWISE

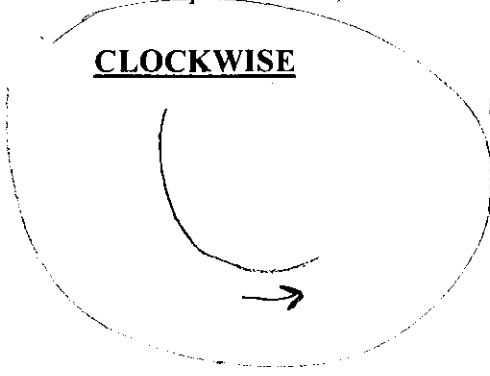


COUNTERCLOCKWISE



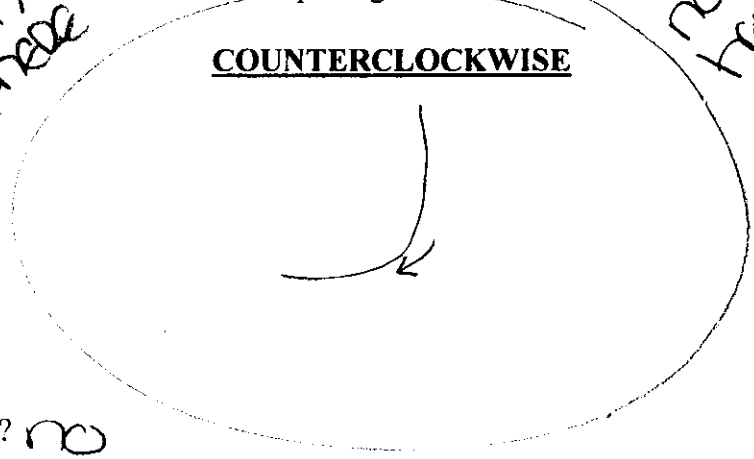
In the space below, draw the direction the line turned AFTER completing the rotations:

CLOCKWISE



Southern Hemisphere

COUNTERCLOCKWISE



Northern Hemisphere

Did you predictions agree with your results? no

Which way does the Coriolis Effect cause objects to be deflected in the Northern and Southern hemisphere?

Northern Hemisphere – objects are deflected to the right.

Southern Hemisphere – objects are deflected to the left.

How does the spin of the Earth affect the oceans and air masses?

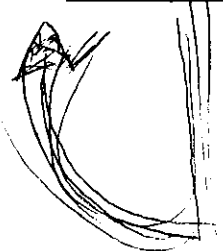
Quinnia S.

The Coriolis Effect

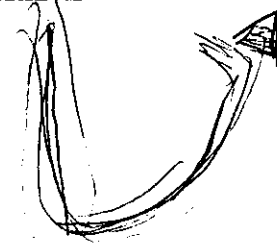
If you got on a plane in New York City and wanted to fly to Miami, could you fly in a straight line to get there? Why or why not? no because of the rotation of the Earth.

Predict what direction you think the line will turn when paper is rotated clockwise and counterclockwise. Draw your prediction below.

CLOCKWISE



COUNTERCLOCKWISE

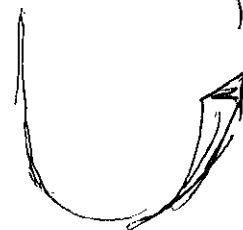


In the space below, draw the direction the line turned AFTER completing the rotations.

CLOCKWISE



COUNTERCLOCKWISE



Northern Hemisphere

Did your predictions agree with your results?

NO

Which way does the Coriolis Effect cause objects to be deflected in the Northern and Southern hemisphere?

Northern Hemisphere – objects are deflected to the East + Right

Southern Hemisphere – objects are deflected to the Left.

How does the spin of the Earth affect the oceans and air masses?

together.