

Coriolis Effect Practice Worksheet

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1. The Coriolis effect is the apparent deflection of a freely moving object because of Earth's rotation.
 - a. TRUE
 - b. FALSE

2. In which direction will an ocean current that is traveling south from the North Pole curve due to Coriolis Effect?
 - a. North
 - b. South
 - c. East
 - d. West

3. The Coriolis Effect occurs because Earth is rotating beneath a moving object.
 - a. TRUE
 - b. FALSE

4. The strength of the Coriolis effect depends upon the rotation rate of the Sun.
 - a. TRUE
 - b. FALSE

5. Freely moving objects appear to move to the right in the Southern Hemisphere.
 - a. TRUE
 - b. FALSE

6. An ocean current traveling across the North Pacific Ocean from west to east runs into North America. Which direction does it go from there?
 - a. It turns right
 - b. It turns left
 - c. It goes straight
 - d. It goes back the way it came

7. The Coriolis Effect describes how
 - a. Earth's rotation steers the movement of air and water
 - b. Earth's rotation goes in different directions in the northern and southern hemisphere

- c. Earth moves beneath an object, causing it to appear that the motion is curved
 - d. All of the above
8. It is incorrect to call Coriolis a force because it is not forcing a motion; it's just an appearance of a change in motion.
- a. TRUE
 - b. FALSE
9. The Coriolis effect is caused by ____.
- a. Earth's rotation
 - b. Earth's revolution
 - c. Gravity
 - d. Both A and C
10. The Coriolis effect is:
- a. The apparent motion of freely moving objects as Earth rotates beneath them
 - b. The force of Earth's rotation pushing on freely moving objects
 - c. What happens when freely moving objects, like air and water, meet high and low pressure cells
 - d. None of these

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