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. If 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

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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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