

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Student Exploration: Uniform Circular Motion

**Background:** circular motion is a type of motion that occurs in many situations. In this exploration, you will explore the physics of uniform circular motion.

**Before this exploration, you should already know the following:**



1. As they go, they are constantly changing direction. This is called **acceleration**. Acceleration is a change in velocity. In this case, the velocity is changing because the direction is changing. Acceleration is a vector quantity, which means it has both magnitude and direction.

2. As you move, the distance you travel is the same. This is called **uniform circular motion**. Uniform circular motion is a type of motion in which the object moves in a circle at a constant speed. The acceleration is always directed toward the center of the circle.

**Before this exploration, you should already know the following:**

When an object moves in a circle, it is constantly changing direction. This is called **acceleration**. Acceleration is a vector quantity, which means it has both magnitude and direction. In this case, the acceleration is always directed toward the center of the circle.

As you move, the distance you travel is the same. This is called **uniform circular motion**. Uniform circular motion is a type of motion in which the object moves in a circle at a constant speed. The acceleration is always directed toward the center of the circle.



1. Draw an object's path position (x) versus time (t) graph. The graph should show a sine wave. The amplitude of the sine wave is the radius of the circle. The period of the sine wave is the time it takes for the object to complete one full circle.
2. Draw the object's velocity (v) versus time (t) graph. The graph should show a cosine wave. The amplitude of the cosine wave is the speed of the object. The period of the cosine wave is the time it takes for the object to complete one full circle.
3. Draw the object's acceleration (a) versus time (t) graph. The graph should show a negative sine wave. The amplitude of the negative sine wave is the magnitude of the acceleration. The period of the negative sine wave is the time it takes for the object to complete one full circle.
4. Draw the object's speed (s) versus time (t) graph. The graph should show a constant horizontal line. The height of the line is the speed of the object. The period of the line is the time it takes for the object to complete one full circle.
5. Draw the object's angular velocity (ω) versus time (t) graph. The graph should show a constant horizontal line. The height of the line is the angular velocity of the object. The period of the line is the time it takes for the object to complete one full circle.



# Explore Learning Uniform Circular Motion Answer Key

**Sebastian Brünink**



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