

Uniform Circular Motion Project:

Objective: By the end of the project period students will create a product that shows their understanding of the Uniform Circular Motion.

Notes:

- This will be your test grade for this quarter.
- This should be done independently.
- You are to use Google Slides as the medium for your product as you will turn it in electronically. Try to answer a question per slide.

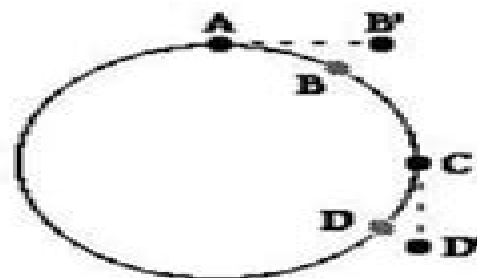
Part 1:

Link: <https://www.physicsclassroom.com/Physics-Interactives/Circular-and-Satellite-Motion/Uniform-Circular-Motion/Uniform-Circular-Motion-Interactive>

Experiment with the on-screen buttons in order to gain familiarity with the control of the animation. The object speed, radius of the circle and object mass can be varied using the sliders or the buttons. The vector nature of velocity and acceleration can be displayed on the screen. The acceleration of and the net force values are displayed in the animation window.

Answer the following questions, provide screen captures to support your answers. (1 point each)

1. Velocity is a vector quantity which has both magnitude and direction. Using complete sentences describes the object's velocity as it travels around the circular path. Comment on both the magnitude and the direction.
2. True or False; if an object moves in a circle at a constant speed its velocity vector will be constant. Explain your answer.
3. Provide three screen captures that show velocity and acceleration vectors for three different points on its circular path. Describe the relationship between the direction of the velocity vector and the direction of the acceleration for a body moving in a circle at constant speed.
4. If an object is in uniform circular motion, then it is accelerating towards the center of the circle; yet the object never gets any closer to the center of the circle. It maintains a constant circular path at a constant radius from the circle's center. Suggest a reason as to how this can be. How can an object accelerate towards the center without ever getting any closer to the center?
5. Suppose that at point A that the object traveled in a straight line of a constant speed towards B'. In what direction must a force be applied to force the object back towards B? Copy the diagram and add an arrow in the direction of the required force. Repeat the procedure for an object moving from C to D'. Draw an arrow.



If the acceleration of the body is towards the center, what is the direction of the unbalanced force? Using a complete sentence describe the direction of the net force that causes the body to travel in a circle at constant speed.

6. Explore the quantitative dependencies of the acceleration upon the speed and the radius of curvature. (In other words, what is the mathematical relationships between

Physics Circular Motion Study Guide Answers

Carol Tear



Physics Circular Motion Study Guide Answers:

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 - Chapter 5: Conclusion
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