

Unit VIII: Objectives

By the time we finish the labs and related materials in this unit, you should be able to:

1. Graph and state the relationships between velocity and mass, velocity and radius, and velocity and period for an object undergoing uniform circular motion.
2. State the mathematical expression that describes the relationship between force, mass, radius and velocity.
3. Given three of the variables, be able to solve for the missing quantity.
4. Distinguish between centripetal and centrifugal force.
5. Construct force diagrams that display the forces acting on an object undergoing uniform circular motion.