

1. Define periodic motion, uniform circular motion, and simple harmonic motion.
2. Give examples of period motion, uniform circular motion, and simple harmonic motion.
3. Compare and contrast UCM and SHM.
4. Define frequency and period; know the relationship between the two.
5. Know and use the three equations for UCM to solve physics problems.
- Honors only 6. Define and use the equation for angular velocity.
- Honors only 7. Derive equations for angular velocity.
8. Know the properties for the vectors of an object in UCM.
9. Define centripetal, as in centripetal acceleration.
10. Define equilibrium and amplitude.
11. Know the properties of the displacement, velocity, and acceleration of an object undergoing SHM.
12. Know the properties of a pendulum.
13. Be able to determine the acceleration due to gravity of an unknown planet using a simple pendulum.
14. Determine the minimum radius a section of street should be based on the speed limit.
- Honors only 15. Determine the minimum length a deceleration lane should be to properly get a car off the interstate.