

Topic: Rotational Motion
 Subject Area(s):

Days: 7
 Grade(s):

Key Learning: The rotational motion of objects is described in terms of angular position, angular velocity, and angular acceleration.



Unit Essential Question(s): How can rotational motion be described in a measurable and quantitative way?

<p>Concept: A) Angular x, v, a are vectors <small>S11.C.3.1.3, S8.A.2.1.1, S8.A.2.1.2, S8.A.2.1.4, 3.4.12.C</small></p>	<p>Concept: b) angular-translational analogues <small>S11.C.3.1.3, S8.A.2.1.1, S8.A.2.1.2, S8.A.2.1.4, 3.4.12.C</small></p>	<p>Concept: c) rotation related phenomena <small>S11.A.1.1.4, S8.A.2.1.4, 3.4.12.C</small></p>
<p>Lesson Essential Question(s): How are vectors quantified and related to an axis of rotation? (A)</p>	<p>Lesson Essential Question(s): How are rotational measurements analogous to linear measurements? (A) How are the rotational kinematics analogous to linear kinematics? (A)</p>	<p>Lesson Essential Question(s): How does the rotation of objects create various rotation-related phenomena? (A)</p>
<p>Vocabulary: angular velocity, angular position, angular acceleration, omega, alpha, radial</p>	<p>Vocabulary:</p>	<p>Vocabulary: rotational</p>
<p>Concept: <small>S11.C.3.1.3, S11.A.1.1.4, S11.C.3.1.2, 3.4.12.C</small></p>	<p>Concept: e) rotation on different scales <small>S8.A.2.1.1, S8.A.2.1.2, S8.A.2.1.4, 3.4.12.C</small></p>	<p>Concept:</p>
<p>Lesson Essential Question(s): How can a rotating reference frame give the appearance of centripetal acceleration? (A)</p>	<p>Lesson Essential Question(s): How does the rotation of objects vary across different scales? (A)</p>	<p>Lesson Essential Question(s):</p>
<p>Vocabulary: Non-Inertial Reference Frames, Inertial Reference Frames</p>	<p>Vocabulary: Macroscopic, Microscopic, Atomic Level</p>	<p>Vocabulary:</p>

Additional Information:

Attached Document(s):