

of forces and motions must be described in an arbitrarily chosen reference frame

## Physics Unit 03: Accelerated Motion

Unit #:	APSDO-00019212	Duration:	2.0 Week(s)	Date(s):		
Team: John Salerni (A Grades: 11 Subjects: Science	Author), Gregory Dunford, David 2	Zlatin				
			Unit Focus			
horizontally (e composed of a changes in ve instructional n	udents will measure, analyze and e.g., cars) and objects accelerating application problems and modelli locity; as well as lab reports compaterials may include an online parent and materials.  Stage 1:	g vertically (e.g ng questions wh posed of experir hysics textbook	., falling objects). Sum nich assess students' u mental design, laborato (linked from teacher v	mative assessments may in nderstanding of how accele ory practice, and data analy	aclude: written tests/quizzes erated motion derives from ysis components. Primary	
E	stablished Goals	Desired 1	results res	Transfer		
Next Generation Science Standards (DCI) Science: 3  • The patterns of an object's motion in various situations can be observed and measured; when that past motion exhibits a regular pattern, future motion can be predicted from it. PS2.3.A2  Science: 6		<ul> <li>T1 (T1) Integrate knowledge from a variety of disciplines and apply it to new situations to make sense of information, formulate insightful questions, and/or solve problems.</li> <li>T2 (T2) Design an investigation or model using appropriate scientific tools, resources, and methods.</li> <li>T3 (T3) Collect, analyze, and evaluate the quality of evidence in relation to a question.</li> <li>T4 (T4) Develop a valid scientific conclusion, assess its validity and limitations, and determine future course of actions to inspire further questions.</li> <li>T5 (T5) Communicate scientific information clearly, thoroughly, and accurately.</li> <li>T6 (T6) Use mathematics to represent physical variables and their relationships, to make quantitative predictions, and to solve problems.</li> </ul>				
<ul> <li>All posit</li> </ul>	ions of objects and the directions					

**Understandings** 

Meaning

**Essential Questions**