



## Physics Frameworks Curriculum Pacing Guide

### Kinematics

**Crosscutting Concepts:** Systems and System Models, Cause and Effect, Stability and Change

**Topics:** Motion, Motion Graphs, Scalars vs. Vectors, Projectile Motion

3-week Instructional Segment

Anchoring Phenomenon	GSE	Sample Instructional Segment	Disciplinary Core Ideas	Science and Engineering Practices	Instructional Notes
Will a dropped object and launched object hit the ground at the same time?	<b>SP1a</b> <b>SP1b</b> <b>SP1c</b> <b>SP1d</b>	<b>Kinematics</b> The use of kinematics to investigate and analyze motion. <b>Dropped vs. Launched</b>	PS2: Motion and Stability	Obtaining, evaluating, and communicating information  Planning and carrying out investigations  Analyzing and interpreting data  Asking questions	Use proper safety precautions and procedures for investigations.  By the end of this unit, students are using the following language in their speaking and writing during EXPLAIN and ELABORATE. <ul style="list-style-type: none"> <li>• Patterns</li> <li>• Models</li> <li>• Systems</li> <li>• Cause</li> <li>• Effect</li> </ul>

This instructional segment will lead into the force unit and will connect to others throughout the year.