



# Berrien Springs High School Physics

## Fall 2013 Instructional Sequence

Aurora Burdick

**Mission:** The mission of the Physics curriculum is to spark an interest in and awareness of applications of physics in the everyday world, to expose students to the ideas and reasoning methods of physics, to sharpen the students' skills as observers and experimenters, to develop an understanding of the basic laws of physics, to develop problem-solving skills, to appreciate the abstract beauty of concise mathematical formulations of natural laws, and to understand that the physical universe is described by the laws of physics.

### Program Schedule:

**Note:** Schedule subject to change based upon the dynamics of the class and the best interests of the students.

#### First Semester

Date	Sect	Title	
T Sep 3		Introduction to Physics / First 9 Weeks	
W Sep 4	1.1	What is Physics?	
R Sep 5	1.2	Measurements and Experiments	
F Sep 6	1.3	The Language of Physics	
M Sep 9		Review Chapter 1	
T Sep 10	2.1	Displacement and Velocity	
W Sep 11	2.2	Acceleration	
R Sep 12	2.2	(cont.)	
F Sep 13		Physics Video Friday	
M Sep 16	2.3	Falling Objects	
T Sep 17		Review Chapter 2	
W Sep 18		Exam 1: Chapters 1 - 2	
R Sep 19	3.1	Vectors	
F Sep 20		Physics Video Friday	
M Sep 23	3.2	Vector Operations	
T Sep 24	3.3	Projectile Motion	
W Sep 25	3.3	(cont.)	
R Sep 26		Review Chapter 3	
F Sep 27		Physics Video Friday	
M Sep 30	4.1	Changes in Motion	
T Oct 1	4.2	Newton's First Law	
W Oct 2	4.3	Newton's Second and Third Laws	

R Oct 3	4.3	(cont.)	
F Oct 4		Physics Video Friday	
M Oct 7	4.4	Everyday Forces	
T Oct 8		Review Chapter 4	
W Oct 9		<b>Exam 2: Chapters 3 - 4</b>	
R Oct 10	5.1	Work	
F Oct 11		Physics Video Friday	
M Oct 14	5.2	Energy	
T Oct 15	5.2	(cont.)	
W Oct 16	5.3	Conservation of Energy	
R Oct 17	5.3	(cont.)	
F Oct 18		Physics Video Friday	
M Oct 21	5.4	Power	
T Oct 22		Review Chapter 5	
W Oct 23		<b>Exam 3: Chapter 5</b>	
R Oct 24		Review Chapters 1 – 5	
F Oct 25		Physics Video Friday	
M Oct 28		Review Chapters 1 – 5	
T Oct 29		makeup day	
W Oct 30		makeup day	
R Oct 31		<b>First 9-Weeks Exam</b>	
F Nov 1		Physics Video Friday/End of Marking Period	
M Nov 4		Introduction to Second 9 Weeks	
T Nov 5	6.1	Momentum and Impulse	
W Nov 6	6.1	(cont.)	
R Nov 7		no class – Parent Teacher Conference	
F Nov 8		Physics Video Friday	
M Nov 11	6.2	Conservation of Momentum	
T Nov 12	6.2	Conservation of Momentum (cont.)	
W Nov 13	6.3	Elastic and Inelastic Collisions	
R Nov 14	6.3	(cont.)	
F Nov 15		Physics Video Friday	
M Nov 18		Review Chapter 6	
T Nov 19		<b>Exam 3: Chapter 6</b>	
W Nov 20	7.1	Circular Motion	
R Nov 21	7.1	(cont.)	
F Nov 22		Physics Video Friday	
M Nov 25	7.2	Law of Gravitation	
T Nov 26	7.2	(cont.)	
W Nov 27		Thanksgiving	
M Dec 2	7.3	Motion in Space	
T Dec 3		Review Chapter 7	

W Dec 4		<b>Exam 4: Chapter 7</b>	
R Dec 5	11.1	Simple Harmonic Motion	
F Dec 6		<a href="#">Physics Video Friday</a>	
M Dec 9	11.1	Simple Harmonic Motion (cont.)	
T Dec 10	11.2	Measuring Simple Harmonic Motion	
W Dec 11	11.2	(cont.)	
R Dec 12	11.3	Properties of Waves	
F Dec 13		<a href="#">Physics Video Friday</a>	
M Dec 16	11.3	Properties of Waves (cont.)	
T Dec 17	11.4	Wave Interactions	
W Dec 18		<b>Review Chapter 11</b>	
R Dec 19		<b>Exam 5: Chapter 11</b>	
F Dec 20		<a href="#">Physics Video Friday</a>	
M Jan 6	12.1	Sound Waves	
T Jan 7	12.1	(cont.)	
W Jan 8	12.2	Sound Intensity and Resonance	
R Jan 9	12.2	(cont.)	
F Jan 10		<a href="#">Physics Video Friday</a>	
M Jan 13	12.3	Harmonics	
T Jan 14		<b>Review Chapter 12</b>	
W Jan 15		<b>Exam 6: Chapter 12</b>	
R Jan 16		<b>Review Chapters 6, 7, 11, 12</b>	
F Jan 17		<a href="#">Physics Video Friday</a>	
M Jan 20		<b>no class – Martin Luther King Jr Day</b>	
T Jan 21		<b>Review Chapters 6, 7, 11, 12</b>	
W Jan 22		<b>Second 9-Weeks Exam</b>	
R Jan 23		<b>Semester Final Exam</b>	
F Jan 24		<i>End of Semester</i>	