

# Physics-I Pacing Guide 2016-2017 rev.1/11

Months	SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER				JANUARY			
Week #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Semester 1	<b>Unit 1</b> <u>Mathematics Skills</u> <ul style="list-style-type: none"> <li>a. Exponents</li> <li>b. Scientific Notation</li> <li>c. Sig Numbers</li> <li>d. Measurement skills</li> </ul>				<b>Unit 2</b> <u>Kinematics</u> <ul style="list-style-type: none"> <li>a. Motion in 1d</li> <li>b. Motion in 2d</li> <li>c. Steady motion</li> </ul> <p>(First Formula of physics)</p>				<b>Unit 2(cont.)</b> <u>Kinematics continued</u> <ul style="list-style-type: none"> <li>d. Accelerated motion</li> <li>e. Motion due to Gravity</li> </ul> <p>(Introducing 3 Acceleration Formulas)</p>				<b>Unit 3</b> <u>Dynamics</u> <ul style="list-style-type: none"> <li>a. Newton's three laws</li> <li>b. Force, mass, and motion</li> </ul>				<b>Unit 4</b> <u>Vectors</u> <ul style="list-style-type: none"> <li>a. Trigonometry</li> <li>-sin,cos,tan</li> <li>b. Distance</li> <li>c. Force</li> </ul> <p>*Resolution of Vectors*</p> <p><u>Start of semester 2</u></p>			
	<b>FEBRUARY</b>				<b>MARCH</b>				<b>APRIL</b>				<b>MAY</b>				<b>JUNE</b>			
	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38		
Semester 2	<b>Unit 5(cont)</b> <u>Projectiles continued</u> <ul style="list-style-type: none"> <li>a. Vectors</li> <li>b. Steady speed</li> <li>c. Accelerated motion</li> </ul>				<b>Unit 6(cont)</b> <u>Circular Motion continued</u> <ul style="list-style-type: none"> <li>a. Radius, velocity, acceleration, mass</li> <li>b. Fits under dynamics</li> </ul>				<b>Unit 8</b> <u>Torque</u> <p>Center of Gravity</p>				<b>Unit 10</b> <u>Momentum</u> <ul style="list-style-type: none"> <li>a. Elastic</li> <li>b. Inelastic</li> </ul>				<b>Unit 11</b> <u>Rotational Physics Continued</u> <ul style="list-style-type: none"> <li>a. Translational Rotational</li> <li>b. Mass, shape, size</li> </ul>			
	<b>Unit 6</b> <u>Circular Motion</u> <ul style="list-style-type: none"> <li>a. Radius, velocity, acceleration, mass</li> <li>b. Fits under dynamics</li> </ul>				<b>Unit 7</b> <u>Universal Gravitation</u> <ul style="list-style-type: none"> <li>a. History of Astronomy</li> <li>b. Newton's Breakthrough</li> <li>c. Applications of physics to astronomy</li> </ul>				<b>Unit 9</b> <u>Energy conservation</u> <ul style="list-style-type: none"> <li>a. Work defined</li> <li>b. Potential, Kinetic</li> <li>c. Energy loss(friction)</li> </ul>				<b>Unit 11</b> <u>Rotational Physics</u> <ul style="list-style-type: none"> <li>a. Translational-Rotational</li> <li>b. Mass, shape, size</li> </ul>							