



<b>Level:</b>	<b>Secondary Two</b>	<b>Topic:</b>	<b>Lesson Plan 2016</b>
<b>Subject:</b>	<b>Physics &amp; Biology</b>	<b>Teacher:</b>	<b>Mr Hamdan</b>

In the name of Allah, most Gracious, most Compassionate

<u>Week</u>	<u>Topics</u>	<u>Materials</u>	<u>Remarks</u>
<b>T3-Week 0</b>	<p><b><u>Chapter P6: Kinematics</u></b></p> <p><b>1. Free fall</b></p> <p><b>2. Distance and Displacement</b></p> <ul style="list-style-type: none"> <li>➤ Definition and understanding</li> <li>➤ Scalar/Vector and SI unit</li> <li>➤ Instrument</li> </ul> <p><b>3. Speed and Velocity</b></p> <ul style="list-style-type: none"> <li>➤ Definition and understanding</li> <li>➤ Scalar/Vector and SI unit / Formula</li> <li>➤ Instrument</li> </ul>		
<b>T3-Week 1</b>	<p><b>4. Acceleration</b></p> <ul style="list-style-type: none"> <li>➤ Definition and understanding</li> <li>➤ SI unit and Formula</li> <li>➤ Real world experience</li> </ul> <p><b>5. Graph</b></p> <ul style="list-style-type: none"> <li>➤ Plotting &amp; Interpret</li> <li>➤ Deduce and explanation</li> <li>➤ Speed-Time / Distance-Time</li> </ul>		
<b>T3-Week 3</b>	<p><b>6. Calculation using</b></p> <ul style="list-style-type: none"> <li>➤ Acceleration</li> <li>➤ Area under graph</li> </ul> <p><b>7. Real world context</b></p> <ul style="list-style-type: none"> <li>➤ Car &amp; Roller coaster</li> </ul>		



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<u>Week</u>	<u>Topics</u>	<u>Materials</u>	<u>Remarks</u>
<b>T3-Week 4</b>	<p><b><u>Chapter P7: Dynamics</u></b></p> <p>1. Newton's Law</p> <ul style="list-style-type: none"> <li>➤ Balanced and unbalanced forces</li> <li>➤ Force on a body &amp; Forces acting on objects</li> </ul>		
<b>T3-Week 5</b>	<p>2. Forces</p> <ul style="list-style-type: none"> <li>➤ Forward/Backward/Upward/Downward force</li> <li>➤ Resultant force</li> <li>➤ Calculating resultant force</li> <li>➤ Formula and SI unit</li> </ul> <p>3. Drawing of a vector resultant force diagram</p>		
<b>T3-Week 6</b>	<p>4. Free Body diagram</p> <ul style="list-style-type: none"> <li>➤ Different forces</li> <li>➤ Lines and line of action</li> </ul> <p>5. Friction</p> <ul style="list-style-type: none"> <li>➤ Importance of friction</li> <li>➤ Daily applications</li> <li>➤ Effects of friction &amp; How to reduce friction</li> </ul>		
<b>T3-Week 7</b>	<p><b><u>Chapter P8: Energy, Work &amp; Power</u></b></p> <p>1. Energy</p> <ul style="list-style-type: none"> <li>➤ Understanding energy</li> <li>➤ Different forms of energy available</li> <li>➤ Principle of conservation of energy</li> <li>➤ Application of conservation of energy and how it is important in continuity of lives</li> </ul> <p>2. Potential and Kinetic Energy</p> <ul style="list-style-type: none"> <li>➤ Definition and Identification</li> <li>➤ Factors contributing to the calculations of Potential and Kinetic Energy</li> <li>➤ Link between both energy</li> <li>➤ Formulas and SI units</li> <li>➤ Understanding the relationship between work done and both energy</li> </ul>		
<b>T3-Week 8</b>	<p>3. Power</p> <ul style="list-style-type: none"> <li>➤ Definition, Formula and SI units</li> <li>➤ Daily applications</li> </ul>		



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<u>Week</u>	<u>Topics</u>	<u>Materials</u>	<u>Remarks</u>
<b>T3-Week 9</b>	<p><b><u>Chapter P9: Thermal Properties of Matter</u></b></p> <p>1. States of matter</p> <ul style="list-style-type: none"> <li>➤ Different states, kinetic particle theory and model</li> <li>➤ Process on the different change in state</li> <li>➤ Changes in particle theory and model upon process</li> </ul> <p>2. Difference between processes</p> <ul style="list-style-type: none"> <li>➤ Evaporation and Boiling</li> <li>➤ Heating and Cooling curve</li> <li>➤ Heating and Cooling Theory</li> </ul>		
<b>T3-Week 10</b>			
<b>T3-Week 10</b>	<b><u>Continual Assessment 2</u></b>		
<b>T4-Week 1</b>	<p><b><u>Chapter P10: Magnetism</u></b></p> <p>1. Magnets</p> <ul style="list-style-type: none"> <li>➤ Properties of magnets</li> <li>➤ Test for magnets – Repulsion test</li> <li>➤ Induced magnetism</li> <li>➤ Methods to magnetize and demagnetize – Drawing and explanation</li> </ul> <p>2. Temporary and Permanent Magnets</p> <ul style="list-style-type: none"> <li>➤ Different metal used to become magnets</li> <li>➤ Choosing a magnet based on requirement</li> <li>➤ Daily application of both magnets</li> </ul>		
<b>T4-Week 2</b>			
<b>T4-Week 2</b>	<b><u>Chapter B3: Biological Molecules</u></b>		<b>Vendor</b>
<b>T4-Week 3</b>	<b><u>Chapter B4: Animal Nutrition</u></b>		<b>Vendor</b>



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<u>Week</u>	<u>Topics</u>	<u>Materials</u>	<u>Remarks</u>
<b>T4-Week 3</b>	<b><u>Revision For End Year Examination</u></b> <b><u>Secondary 1</u></b> Chapter P1: Measurements Chapter P2: Mass, Weight & Density Chapter P3: Turning Effect of Forces		
<b>T4-Week 4</b>	Chapter P4: Pressure Chapter P5: Transfer of Thermal Energy		
<b>T4-Week 5</b>	<b><u>Secondary 2</u></b> Chapter P6: Kinematics Chapter P7: Dynamics Chapter P8: Energy, Work & Power		
<b>T4-Week 6</b>	Chapter P9: Thermal Properties of Matter Chapter P10: Magnetism		
<b>T4-Week 7</b> <b>T4-Week 8</b>	<b><u>End Year Examination</u></b>		<b>Sec 1 &amp; 2</b> <b>Chemistry</b> <b>Physics</b> <b>Biology</b>

Total no. of periods in term 1: **periods**

Total no. of periods in term 2: **periods**

**The End. Alhamdulillah.**