



<b>Level:</b>	<b>Secondary Three</b>	<b>Topic:</b>	<b>Lesson Plan 2016</b>
<b>Subject:</b>	<b>Chem / Phy / Bio</b>	<b>Teacher:</b>	<b>Mr Zakaria</b>

In the name of Allah, most Gracious, most Compassionate

<u>Week</u>	<u>Topics</u>	<u>Materials</u>	<u>Remarks</u>
<b>T1-Week 2</b>	<p><b><u>Chapter C11: Reactivity &amp; Extraction</u></b></p> <p><b>1. Reactivity</b></p> <ul style="list-style-type: none"> <li>➤ Reactivity of Metals in Different Groups</li> <li>➤ Understanding the Arrangement</li> <li>➤ Knowledge of Reactivity Series</li> <li>➤ All reactions with Water, Acid and Steam</li> </ul>		
<b>T1-Week 3</b>	<p><b>2. Reactivity and Extraction</b></p> <ul style="list-style-type: none"> <li>➤ Knowledge of ease of extracting</li> <li>➤ Different extraction process</li> <li>➤ Extraction Useful or Harmful</li> <li>➤ Extraction of Iron (Understand importance of the different raw materials)</li> <li>➤ Extraction process and chemical equation</li> </ul>		
<b>T1-Week 4</b>	<p><b><u>Chapter C12: Mole</u></b></p> <p><b>1. Ar &amp; Mr</b></p> <ul style="list-style-type: none"> <li>➤ Definition</li> <li>➤ Calculation</li> </ul>		<b>Replace with C7</b>
<b>T1-Week 5</b>	<p><b>2. Mole</b></p> <ul style="list-style-type: none"> <li>➤ Forming equation</li> <li>➤ Balancing</li> <li>➤ Understanding mol ratio</li> <li>➤ Formula</li> <li>➤ Application order</li> </ul>		





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<u>Week</u>	<u>Topics</u>	<u>Materials</u>	<u>Remarks</u>
<b>T1-Week 10</b>	<p><b><u>Chapter P11: Waves</u></b></p> <p><b>1. Waves</b></p> <ul style="list-style-type: none"> <li>➤ Formation of waves</li> <li>➤ Energy around waves</li> <li>➤ Two types of waves with examples</li> <li>➤ Importance of waves</li> </ul> <p><b>2. Transverse Waves</b></p> <ul style="list-style-type: none"> <li>➤ Definition and understanding the movement criteria</li> <li>➤ Types of transverse waves</li> <li>➤ Properties</li> <li>➤ Drawing of slinky spring with hand movements</li> <li>➤ Water waves &amp; ripples</li> </ul>		
<b>T2-Week 1</b>	<p><b>3. Longitudinal Waves</b></p> <ul style="list-style-type: none"> <li>➤ Definition and understanding the movement criteria</li> <li>➤ Types of longitudinal waves</li> <li>➤ Properties</li> <li>➤ Drawing of slinky spring with hand movements</li> </ul> <p><b>4. Transverse Waves Vs Longitudinal Waves</b></p> <ul style="list-style-type: none"> <li>➤ Differences</li> <li>➤ Daily application</li> </ul> <p><b>5. Wave Terms</b></p> <ul style="list-style-type: none"> <li>➤ Crest, Trough, Amplitude, Wavelength, Period, Frequency, Wavefront</li> <li>➤ SI units</li> </ul>		
<b>T2-Week 2</b>	<p><b>6. Graph Identification</b></p> <ul style="list-style-type: none"> <li>➤ Displacement-Distance</li> <li>➤ Displacement-Time</li> </ul> <p>Calculate using 2 different formulas</p>		



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<b>T2-Week 2</b>	<p><b><u>Chapter P12: Light</u></b></p> <p><b>1. Light</b></p> <ul style="list-style-type: none"> <li>➤ Type of wave</li> <li>➤ Properties of light waves</li> <li>➤ General application and usefulness</li> </ul> <p><b>2. Reflection</b></p> <ul style="list-style-type: none"> <li>➤ Laws of Reflection with diagram</li> <li>➤ Understanding the importance of normal, incident ray and reflected ray</li> <li>➤ How different surfaces affect clarity of reflection</li> <li>➤ Characteristics of image formed on a plane mirror with diagram</li> <li>➤ Understanding the term, virtual</li> <li>➤ Importance of reflection</li> </ul>		
<b>T2-Week 3</b>	<p><b>3. Refraction</b></p> <ul style="list-style-type: none"> <li>➤ Laws of Refraction with diagram</li> <li>➤ Understanding the importance of normal, incident ray and refracted ray</li> <li>➤ Refractive index on 3 different occasions, angle, depth and speed of light</li> <li>➤ Application in solving refractive ratio index</li> <li>➤ Drawing 3 continuous ray, incident, refractive and emergent ray on a glass block</li> <li>➤ Daily applications</li> </ul> <p><b>4. Critical Angle and Total internal reflection</b></p> <ul style="list-style-type: none"> <li>➤ Define terms</li> <li>➤ Requirements for critical angle to occur</li> <li>➤ How critical angle can lead to total internal reflection</li> <li>➤ Importance of total internal reflection</li> <li>➤ Daily applications</li> </ul>		
<b>T2-Week 4</b>	<p><b>5. Lenses</b></p> <ul style="list-style-type: none"> <li>➤ Concave and Convex lenses and the light that forms with diagram</li> <li>➤ Action of converging lens on beam of light</li> <li>➤ Defining terms with diagram, optical centre, focal point, 2 focal point and focal</li> </ul>		



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	<p>length</p> <ul style="list-style-type: none"> <li>➤ Difference between real and virtual image</li> <li>➤ 5 different ray diagrams formed by converging lens based on the distance</li> </ul> <p>Characteristics of images formed by the converging lens with daily applications</p>		
<b>T2-Week 5</b>	<b><u>Chapter B1: Cell Structure &amp; Organisation</u></b>		<b>Vendor</b>
<b>T2-Week 6</b>	<b><u>Chapter B2: Movement of Substances</u></b>		<b>Vendor</b>
<b>T2-Week 6</b> <b>T2-Week 8</b>	<p><b><u>Revision For Mid Year Examination</u></b></p> <p><b><u>Secondary 1</u></b></p> <p>Chapter P1: Measurements            Chapter P2: Mass, Weight &amp; Density            Chapter P3: Turning Effect of Forces            Chapter P4: Pressure            Chapter P5: Transfer of Thermal Energy</p>		
<b>T2-Week 9</b>	<b><u>Mid Year Examination</u></b>		<b>Sec 1 &amp; 3</b> <b>Physics</b> <b>Chemistry</b> <b>Biology</b>

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

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

**The End. Alhamdulillah.**