



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

In the name of Allah, most Gracious, most Compassionate

<u>Week</u>	<u>Topics</u>	<u>Materials</u>	<u>Remarks</u>
<p>T3-Week 0</p> <p>T3-Week 1</p>	<p><u>Chapter P13: Electromagnetic Spectrum</u></p> <ol style="list-style-type: none"> Electromagnetic Spectrum <ul style="list-style-type: none"> Type of wave Properties of EMS General application and usefulness Main Components of EMS <ul style="list-style-type: none"> Arrangement according to frequency, wavelength and ionisation Define the understanding of ionisation and how harmful it is to humans Uses for EMS <ul style="list-style-type: none"> Two examples of uses for each components Importance of each component 		
<p>T3-Week 1</p> <p>T3-Week 3</p> <p>T3-Week 4</p>	<p><u>Chapter P14: Sound</u></p> <ol style="list-style-type: none"> Sound <ul style="list-style-type: none"> Type of wave Properties of sound Production of sound by vibration Understanding the movement of molecules during production of sound General application Sound in Detail <ul style="list-style-type: none"> Sound travelling in terms of compressions and rarefactions Drawing of slinky spring with compressions and rarefactions Applying amplitude, wavelength and frequency on vibration of sound Difference in speed in different medium Sound in different forms <ul style="list-style-type: none"> How sound is affected amplitude and frequency Drawing the difference in wave when a louder sound or pitch is applied Echo and its formation 		



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	<ul style="list-style-type: none"> ➤ Importance of echo in humans, animals and surroundings ➤ Applying different formulas to evaluate speed of sound and speed of sound in echo 		
T1-Week 5	<p><u>Chapter P15: Static Electricity</u></p> <p>1. Charges</p> <ul style="list-style-type: none"> ➤ Different charges ➤ Like and unlike charges ➤ Movement of charges ➤ Charges on different surfaces <p>2. Electric Field</p> <ul style="list-style-type: none"> ➤ Terms and understanding ➤ Drawing of electric field lines from different charges ➤ Drawing connecting field lines and patterns ➤ Strength of field lines 		
T1-Week 6 T1-Week 8	<p><u>Revision For End Year Examination</u></p> <p><u>Secondary 2</u></p> <p>Chapter P6: Kinematics Chapter P7: Dynamics Chapter P8: Energy, Work & Power Chapter P9: Thermal Properties of Matter Chapter P10: Magnetism</p>		
T1-Week 10	<u>Continual Assessment 2</u>		



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<u>Week</u>	<u>Topics</u>	<u>Materials</u>	<u>Remarks</u>
T3-Week 9	<p><u>Chapter C14: Fuel</u></p> <p>1. Fossil Fuel</p> <ul style="list-style-type: none"> ➤ Past, Present, Future ➤ Composition of Fuel (Hydrocarbons) ➤ Process and Separation Technique (Why) <p>2. Petroleum</p> <ul style="list-style-type: none"> ➤ Separation process ➤ Fractions ➤ Uses 		
T3-Week 10	<p>3. Supply & Demands</p> <ul style="list-style-type: none"> ➤ Current World Affaris 		
T4-Week 1	<p><u>Chapter C15: Organic Chemistry</u></p> <p>1. Homologous Series</p> <ul style="list-style-type: none"> ➤ Definition ➤ Different Homologous Series ➤ Hydrocarbons and Non-Hydrocarbons ➤ Physical and Chemical Properties <p>2. Alkane, Alkene, Alcohol, Acid</p> <ul style="list-style-type: none"> ➤ General Formula ➤ Structure and Chemical Formula ➤ Functional Group ➤ Physical Properties ➤ Difference in Physical Properties Down the Group 		
T4-Week 2	<p>3. Alkane Vs Alkene</p> <ul style="list-style-type: none"> ➤ Test to differentiate ➤ Margarine and Butter Identification <p>4. Chemical Properties</p> <ul style="list-style-type: none"> ➤ Alkane (Combustion, Substitution and Cracking) ➤ Explanation and Chemical Equation ➤ Alkene (Combustion, Hydrogenation, Bromination and Addition Polymerisation) ➤ Explanation and Chemical Equation ➤ Alcohol (Combustion and Oxidation) 		



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T4-Week 3	<ul style="list-style-type: none"> ➤ Explanation and Chemical Equation ➤ Acid (Combustion) ➤ Explanation and Chemical Equation <p>5. Fermentation</p> <ul style="list-style-type: none"> ➤ Process ➤ Conditions 		
T4-Week 3	<u>Chapter B3: Biological Molecules</u>		Vendor
T4-Week 4	<u>Chapter B4: Animal Nutrition</u>		Vendor
T4-Week 5	<p><u>Revision For End Year Examination</u></p> <p><u>Secondary 1</u></p> <p>Chapter C6: Chemical Bonding</p> <p>Chapter C7: Chemical Equations</p> <p>Chapter C8: Periodic Table</p> <p>Chapter C9: Metals</p> <p>Chapter C10: Acids & Bases</p>		
T4-Week 6			
T4-Week 7 T4-Week 8	<u>End Year Examination</u>		Sec 1,2 & 3 Physics Chemistry Biology

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

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

The End. Alhamdulillah.