



Level:	Secondary Three	Topic:	Lesson Plan 2016
Subject:	Mathematics	Teacher:	Mr Zakaria

In the name of Allah, most Gracious, most Compassionate

<u>Week</u>	<u>Topics</u>	<u>Materials</u>	<u>Remarks</u>
T1-Week 2	<p><u>Chapter 22: Indices and Standard Form</u></p> <p>1. Rules and Laws</p> <ul style="list-style-type: none"> ➤ 2 Main Rules of Indices ➤ 5 Different Laws ➤ Applying the Knowledge ➤ Comparing Indices 		
T1-Week 3	<p>2. Standard Form</p> <ul style="list-style-type: none"> ➤ Prefixes and Money Values ➤ Range of Values 		
T1-Week 4	<p><u>Revision</u></p> <p>Chapter 10: Angles and Parallel Lines, Geometrical Constructions</p> <p>Chapter 11: Triangles & Polygons</p>		
T1-Week 6	<p><u>Revision</u></p> <p>Chapter 17 : Perimeter and Areas of Plane Figures</p> <p>Chapter 18: Volume and Surface Areas of Prism and Cylinder</p> <p>Chapter 19: Mensuration of Pyramids, Cones and Spheres</p> <p>Chapter 20: Arc Length and Area of Sector, Radian Measure</p>		
T1-Week 7	<p><u>Revision</u></p> <p>Chapter 6: Percentage</p> <p>Chapter 7: Practical Mathematics</p>		
T1-Week 8	<p><u>Chapter 23: Coordinate Geometry</u></p> <p>1. Understanding the Axis</p> <ul style="list-style-type: none"> ➤ Knowledge on the Reading the Coordinates ➤ Forming 2D diagrams ➤ Identifying the Shape of the Objects ➤ Understanding the Equation of a Line with the Represented Alphabets 		



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T1-Week 9 T1-Week 10	<p><u>Chapter 23: Coordinate Geometry</u></p> <p>2. Evaluation</p> <ul style="list-style-type: none"> ➤ Determine the Gradient of the Line ➤ Gradient Reasoning ➤ Positive and Negative Gradient ➤ Evaluate Length of Line ➤ Finding Area using 2 Length of Line <p>3. Equation of Line</p> <ul style="list-style-type: none"> ➤ Interpret and Find Equation of Line ➤ Form Equation to Solve Geometric Problems 		
T1-Week 10	<u>Continual Assessment 1</u>		<p>Chapter 6 – 7</p> <p>Chapter 10 – 11</p> <p>Chapter 17 – 20</p> <p>Chapter 22</p>
T2-Week 1 T2-Week 2 T2-Week 3	<p><u>Chapter 24: Functions and Graphs</u></p> <p>1. Functions</p> <ul style="list-style-type: none"> ➤ 8 Different Types of Graphs ➤ Simple Detailed Table ➤ Sketching <p>2. Simple Quadratic Graph</p> <ul style="list-style-type: none"> ➤ Factorisation Graph ➤ Completing the Square ➤ Sketching with Given Quadratic Functions <p>3. Characteristics of the Quadratic Graph</p> <ul style="list-style-type: none"> ➤ Line of Symmetry ➤ Maximum / Minimum / Turning Point ➤ X and Y Intercept ➤ Sketching with Necessary Working 		
T2-Week 4	<p><u>Revision</u></p> <p>Chapter 8: Introduction to Algebra, Algebraic Equations and Simple Inequalities</p> <p>Chapter 9: Algebraic Manipulation, Expansion and Factorisation</p>		



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T2-Week 5	<p><u>Chapter 25: Quadratic Equations & Graph</u></p> <p>1. Quadratic Equations</p> <ul style="list-style-type: none"> ➤ Solving with Factorisation ➤ Solving with Formula ➤ Solving with Completing the Square ➤ Solving with Calculator 		
T2-Week 6	<p>2. Word Problems on Quadratic Equation</p> <ul style="list-style-type: none"> ➤ Algebraic Quadratic Equation ➤ Speed Distance Time Quadratic Equation ➤ Area, Surface Area and Circumference Quadratic Equation 		
T2-Week 7	<p>3. Graph</p> <ul style="list-style-type: none"> ➤ Finding Unknown Using Equation ➤ Drawing Using French Curve ➤ Finding Gradient ➤ Finding Maximum / Minimum Points ➤ Finding Values of X and Y coordinates ➤ Cubic Equations 		
T2-Week 8	<u>Revision Mid Year Examination</u>		
T2-Week 9	<u>Mid Year Examination</u>		Chapter 6 – 9 Chapter 10 – 11 Chapter 17 – 20 Chapter 22 - 25
T3-Week 0	<p><u>Revision</u></p> <p>Chapter 1: Factors and Multiples</p> <p>Chapter 2: Real Numbers</p> <p>Chapter 3: Approximation and Estimation</p> <p>Chapter 4: Rate, Ratio and Speed</p> <p>Chapter 5: Proportion (Direct, Indirect and Map Scales)</p>		



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T3-Week 4	<p><u>Chapter 26: Statistics</u></p> <p>1. Data Handling</p> <ul style="list-style-type: none"> ➤ Data Collection ➤ Conduct Surveys ➤ Classifying ➤ Outcomes 		
T3-Week 5	<p>2. Data Presentation</p> <ul style="list-style-type: none"> ➤ Histograms ➤ Frequency Table ➤ Dot Diagram ➤ Stem Leaf Diagram ➤ Variable Frequency Table ➤ Pictograms / Pie Chart 		
T3-Week 6	<p>3. Data Analysis</p> <ul style="list-style-type: none"> ➤ Mean / Median / Mode ➤ Upper / Lower / Interquartile ➤ Range ➤ Standard Deviation <p>4. Data Analysis Part 2</p> <ul style="list-style-type: none"> ➤ Plotting Cumulative Frequency Table ➤ Sketching Cumulative Frequency ➤ Interpret and Analyse Curve ➤ Box-And-Whisker Plot ➤ Comparison between Mean, Median, Interquartile Range and Standard Deviation 		
T3-Week 7	<p><u>Chapter 27: Congruency and Similarity</u></p> <p>1. Congruent Figures</p> <ul style="list-style-type: none"> ➤ Identifying Congruent Figures ➤ Principles of Proofing ➤ Different Types of Proofing ➤ Reasoning 		
T3-Week 8	<p>2. Similar Figures</p> <ul style="list-style-type: none"> ➤ Identifying Similar Figures ➤ Principles of Proofing ➤ Different Types of Proofing ➤ Reasoning ➤ Enlargement and Reduction 		



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T3-Week 9	<p><u>Chapter 27: Congruency and Similarity</u></p> <p>3. Similarity of Objects</p> <ul style="list-style-type: none"> ➤ Ratio vs Actual ➤ Simple World Problems in Real Life context 		
T3-Week 10	<p><u>Revision</u></p> <p>Chapter 13: Simple Algebraic Fractions and Solving of Equations</p> <p>Chapter 14: Linear Equations in Two Unknowns (Simultaneous Equations)</p> <p>Chapter 15: Linear Inequalities</p>		
T3-Week 10	<u>Continual Assessment 2</u>		Chapter 8 - 10
T4-Week 1	<p><u>Revision</u></p> <p>Chapter 16: Pythagoras Theorem</p>		
T4-Week 1	<p><u>Chapter 28: Trigonometry</u></p> <p>1. Right Angle Triangle</p> <ul style="list-style-type: none"> ➤ Pythagoras Law ➤ Proofing a Pythagoras Triangle ➤ Revise TOA CAH SOH ➤ Evaluating Unknown Length or Angle ➤ Area of Right Angle Triangle 		
T4-Week 2	<p>2. Non-Right Angle Triangle</p> <ul style="list-style-type: none"> ➤ Family Between Angle and Length ➤ Sine Rule ➤ Cosine Rule ➤ Area of Non-Right Angle Triangle ➤ Word Problems 		
T4-Week 3	<p>3. Applications to Word Problems</p> <ul style="list-style-type: none"> ➤ Bearing ➤ Shortest Distance ➤ Angle of Elevation and Depression ➤ Critical Planning and Thinking 		



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T4-Week 4	<p><u>Chapter 29: Matrices</u></p> <p>1. Introduction</p> <ul style="list-style-type: none"> ➤ Displaying Values by Rows and Columns in the Form of Matrix ➤ Interpreting Given Data In the Form of Matrix <p>2. Basic Matrix</p> <ul style="list-style-type: none"> ➤ Addition and Subtraction ➤ Scalar Matrix ➤ Evaluating Matrix Using BODMAS Rule 		
T4-Week 5	<p>3. Product Matrix</p> <ul style="list-style-type: none"> ➤ Determine the possibility ➤ Solving ➤ Word Problems ➤ Total, Percentage and Decimal Matrix ➤ Sentence Structure 		
T4-Week 6	<p><u>Revision</u> Chapter 21: Properties of Circle</p>		
T4-Week 6	<p><u>Revision End Year Examination</u></p>		
T4-Week 7 T4-Week 8	<p><u>End Year Examination</u></p>		Chapter 1 - 29

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

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

The End. Alhamdulillah.