SCHEME OF WORK MATHEMATICS FORM 2 2022-MAY

TERM I ENDARASHA BOYS

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| **WK** | **LSN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **L/T ACTIVITIES** | **L/T AIDS** | **REFERENCE** | **REMARKS** |
| **2** | 1 | Cubes And Cube Roots | Cubes of numbers by multiplication and from tables | By the end of the lesson, the learner should be able to:  Find the cubes of numbers by multiplication  Find the cube roots of numbers from tables | Multiplying numbers Reading mathematical tables  Discussions Demonstrations Exercises  Exercises in given class | Mathematical tables Real life situation | Discovering secondary mathematics Book 2  Pages 1-3  Secondary mathematics KLB book 2 pages 1 and  2  KLB teachers? guide book 2 page 1  Golden tips mathematics pages 6 and 63 |  |
| 2 | Cubes And Cube Roots | Cube roots of numbers by factor method | By the end of the lesson, the learner should be able to:  Find the cube roots of numbers by factor method | Multiplying numbers Reading mathematical tables  Discussions Demonstrations Exercises  Exercises in given class | Mathematical tables Real life situation | Discovering secondary mathematics Book 2  Pages 5-6  Secondary mathematics KLB book 2 page 3  KLB teachers? guide book 2 page 1-2  Golden tips mathematics pages 62 |  |
| 3 | Cubes And Cube Roots | Evaluation of cube and cube roots expressions and application of cubes and cube roots in real life situation | By the end of the lesson, the learner should be able to:  Evaluate expressions involving cubes and cube roots  Apply the knowledge of cubes and cube roots in real life situations | Multiplying numbers Reading mathematical tables  Discussions Demonstrations Exercises  Exercises in given class | Mathematical tables Real life situation | Discovering secondary mathematics Book 2  Pages 5-6  Secondary mathematics KLB book 2 page 3 and 4 KLB teachers? guide book 2 page 2  Golden tips mathematics pages 63 and 64 |  |
| 4 | Reciprocals | Reciprocals of numbers by division and from tables | By the end of the lesson, the learner should be able to:  Find reciprocals of numbers by division Find reciprocals of numbers from tables | Multiplying numbers Dividing numbers Reading mathematical tables  Discussions Demonstrations Exercises  Exercises in given class | Mathematical tables | Discovering secondary mathematics Book 2  Pages 12-13  Secondary mathematics KLB book 2 page 5  KLB teachers? guide book 2 page 5  Golden tips mathematics pages 64 |  |
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|  | 5 | Reciprocals | Computation using reciprocals | By the end of the lesson, the learner should be able to:  Use reciprocals of numbers in computation | Multiplying numbers Dividing numbers Reading mathematical tables  Discussions Demonstrations Exercises  Exercises in given class | Mathematical tables | Discovering secondary mathematics Book 2  Pages 12-13  Secondary mathematics KLB book 2 page 6  KLB teachers? guide book 2 page 5-6  Golden tips mathematics pages 64 |  |
| 6 | Indices And Logarithms | Indices (powers) and base | By the end of the lesson, the learner should be able to:  Define indices Express numbers in index form  Express indices in number form | Multiplying numbers Dividing numbers Factorizing numbers Reading mathematical tables  Discussions  Exercises in given class | Logarithm tables Charts illustrations laws of indices | Discovering secondary mathematics Book 2 Page 7  Secondary mathematics KLB book 2 page 7  KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 44-46 |  |
| 7 | Indices And Logarithms | Laws of Indices | By the end of the lesson, the learner should be able to:  State laws of indices regarding negative indices  State laws of indices fractional indices Apply the laws of indices in calculation | Multiplying numbers Dividing numbers Factorizing numbers Reading mathematical tables  Discussions  Exercises in given class | Logarithm tables Charts illustrating laws of indices | Discovering secondary mathematics Book 2 Page 7-11  Secondary mathematics KLB book 2 page 8-13 KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 44-46 |  |
| **3** | 1 | Indices And Logarithms | Powers of 10 and common logarithms | By the end of the lesson, the learner should be able to:  Relate the powers of 10 to common logarithms Identify the parts of the logarithms i.e characteristic mantissa | Multiplying numbers Dividing numbers Factorizing numbers Discussions  Exercises in given class | Mathematical tables Charts illustrating laws of indices | Discovering secondary mathematics Book 2 Page 15  Secondary mathematics KLB book 2 page 16-17 KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 52 |  |
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|  | 2 | Indices And Logarithms | Logarithms of positive numbers less than one | By the end of the lesson, the learner should be able to:  Find the logarithm of a number less than 1 from mathematical tables Apply the logarithms of numbers less than one in computation | Multiplying numbers Dividing numbers Factorizing numbers Discussions  Exercises in given class | Mathematical tables Charts illustrating laws of indices | Discovering secondary mathematics Book 2 Page 15  Secondary mathematics KLB book 2 page 18  KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 52 |  |
| 3 | Indices And Logarithms | Logarithms of positive numbers less than one | By the end of the lesson, the learner should be able to:  Find the logarithm of a number less than 1 from mathematical tables Apply the logarithms of numbers less than one in computation | Multiplying numbers Dividing numbers Factorizing numbers Discussions  Exercises in given class | Mathematical tables Charts illustrating laws of indices | Discovering secondary mathematics Book 2 Page 15  Secondary mathematics KLB book 2 page 18  KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 52 |  |
| 4 | Indices And Logarithms | Logarithms of numbers less than ten (X<10) | By the end of the lesson, the learner should be able to:  Find the logarithm numbers less than 10 but greater than 1  Apply the logarithms of numbers less than 10 but greater than 1 in computation | Multiplying numbers Dividing numbers Factorizing numbers Discussions  Exercises in given class | Mathematical tables Charts illustrating laws of indices | Discovering secondary mathematics Book 2 Page 16  Secondary mathematics KLB book 2 page 18  KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 54 |  |
| 5 | Indices And Logarithms | Logarithms of numbers greater than ten | By the end of the lesson, the learner should be able to:  Find the logarithm numbers greater than 10 Apply the logarithms of numbers l greater than 10 in computation | Multiplying numbers Dividing numbers Factorizing numbers Discussions  Exercises in given class | Mathematical tables Charts illustrating laws of indices | Discovering secondary mathematics Book 2 Page 16  Secondary mathematics KLB book 2 page 18  KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 54 |  |
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|  | 6 | Indices And Logarithms | Antilogarithms | By the end of the lesson, the learner should be able to:  Find antilogarithms of numbers  Apply the antilogarithms of numbers in numericals | Multiplying numbers Dividing numbers Factorizing numbers Discussions  Exercises in given class | Mathematical tables Charts illustrating laws of indices | Discovering secondary mathematics Book 2 Page 17  Secondary mathematics KLB book 2 page 19  KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 54 |  |
| 7 | Indices And Logarithms | Antilogarithms | By the end of the lesson, the learner should be able to:  Find antilogarithms of numbers  Apply the antilogarithms of numbers in numericals | Multiplying numbers Dividing numbers Factorizing numbers Discussions  Exercises in given class | Mathematical tables Charts illustrating laws of indices | Discovering secondary mathematics Book 2 Page 17  Secondary mathematics KLB book 2 page 19  KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 54 |  |
| **4** | 1 | Indices And Logarithms | Multiplication of numbers division of numbers | By the end of the lesson, the learner should be able to:  Use logarithms to work out the multiplication of numbers  Use logarithms to work out the division of numbers | Multiplying numbers Dividing numbers Factorizing numbers Discussions  Exercises in given class | Mathematical tables Charts illustrating laws of indices | Discovering secondary mathematics Book 2 Page 18  Secondary mathematics KLB book 2 page 20  KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 55 |  |
| 2 | Indices And Logarithms | Combines multiplication and division of numbers | By the end of the lesson, the learner should be able to:  Combine multiplication and division of numbers to work out logarithm problems | Multiplying numbers Dividing numbers Factorizing numbers Discussions  Exercises in given class | Mathematical tables Charts illustrating laws of indices | Discovering secondary mathematics Book 2 Page 19  Secondary mathematics KLB book 2 page 20  KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 56 |  |
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|  | 3 | Indices And Logarithms | Negative characteristics Application of logarithms | By the end of the lesson, the learner should be able to:  Use negative logarithms Apply the knowledge of logarithms and indices in daily computation Find roots and squares of numbers using logarithms | Multiplying numbers Dividing numbers Factorizing numbers Discussions  Exercises in given class | Mathematical tables Charts illustrating laws of indices | Discovering secondary mathematics Book 2 Page 20  Secondary mathematics KLB book 2 page 18  KLB teachers? guide book 2 page 7-8  Golden tips mathematics pages 55 |  |
| 4 | Gradients And Equations Of Straight Lines | Gradient of a straight line | By the end of the lesson, the learner should be able to:  Define gradient of a straight line ? Education Plus Agencies Determine the gradient of a straight line through known points | Drawing linear graphs Plotting co-ordinates on the Cartesian plane Reading co-ordinates of points on the Cartesian plane | Square boards Graph books Straight edged ruler Real life situation | Discovering secondary mathematics Book 2 Page 25-23  Secondary mathematics KLB book 2 page 27-34 KLB teachers? guide book 2 page 14-15  Golden tips mathematics pages 174 |  |
| 5 | Gradients And Equations Of Straight Lines | equation of a straight line | By the end of the lesson, the learner should be able to:  Determine the equation f a straight line using gradient and a known point  Determine the equation of a straight line given two points | Drawing linear graphs Plotting co-ordinates on the Cartesian plane Reading co-ordinates of points on the Cartesian plane | Square boards Graph books Straight edge/ruler Real life situation | Discovering secondary mathematics Book 2 Page 25-26  Secondary mathematics KLB book 2 page 34-35 KLB teachers? guide book 2 page 14-15  Golden tips mathematics pages 171 |  |
| 6 | Gradients And Equations Of Straight Lines | General equation of a straight line | By the end of the lesson, the learner should be able to:  Express the equation of a straight line in the form of y=mx+c  Interpret the equation y=mx+c | Drawing linear graphs Plotting co-ordinates on the Cartesian plane Reading co-ordinates of points on the Cartesian plane | Square boards Graph books Straight edge/rulers Real life situation | Discovering secondary mathematics Book 2 Page 27  Secondary mathematics KLB book 2 page 34  KLB teachers? guide book 2 page 14-15  Golden tips mathematics pages 171 |  |
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|  | 7 | Gradients And Equations Of Straight Lines | The intercept of a straight line | By the end of the lesson, the learner should be able to:  Find the x and the y intercept of a straight line  Express a double intercept equation of a straight line | Drawing linear graphs Plotting co-ordinates on the Cartesian plane Reading co-ordinates of points on the Cartesian plane | Square boards Graph books Straight edge/rulers Real life situation | Discovering secondary mathematics Book 2 Page 28  Secondary mathematics KLB book 2 page 36  KLB teachers? guide book 2 page 14-15  Golden tips mathematics pages 171 |  |
| **5** | Midterm exams | | | | | | | |
| **6** | 1 | Gradients And Equations Of Straight Lines | The gradient of parallel lines | By the end of the lesson, the learner should be able to:  Find the gradient of parallel lines  Relate parallel lines in terms of their gradients | Drawing linear graphs Plotting co-ordinates on the Cartesian plane Reading co-ordinates of points on the Cartesian plane | Square boards Graph books Straight edge/ rulers Real life situation | Discovering secondary mathematics Book 2 Page 29  Secondary mathematics KLB book 2 page 43-44 KLB teachers? guide book 2 page 14-15  Golden tips mathematics pages 175 |  |
| 2 | Gradients And Equations Of Straight Lines | The gradient of parallel lines | By the end of the lesson, the learner should be able to:  Find the gradient of parallel lines  Relate parallel lines in terms of their gradients | Drawing linear graphs Plotting co-ordinates on the Cartesian plane Reading co-ordinates of points on the Cartesian plane | Square boards Graph books Straight edge/ rulers Real life situation | Discovering secondary mathematics Book 2 Page 29  Secondary mathematics KLB book 2 page 43-44 KLB teachers? guide book 2 page 14-15  Golden tips mathematics pages 175 |  |
| 3 | Gradients And Equations Of Straight Lines | The gradient of perpendicular lines | By the end of the lesson, the learner should be able to:  Find the gradient of perpendicular l lines Relate perpendicular lines in terms of their gradients | Drawing linear graphs Plotting co-ordinates on the Cartesian plane Reading co-ordinates of points on the Cartesian plane | Square boards Graph books Straight edge/ rulers Real life situation | Discovering secondary mathematics Book 2 Page 30  Secondary mathematics KLB book 2 page 41-43 KLB teachers? guide book 2 page 14-15  Golden tips mathematics pages 172 |  |
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|  | 4 | Reflection And Congruence | Geometric transformation (reflection) | By the end of the lesson, the learner should be able to:  State the properties of reflection  Construct and identify the images and the objects in a reflection using the properties Make geometrical deductions using reflection | Observing objects in plane mirrors Identifying the objects and their images in a plan mirror  Drawing Identifying lines of symmetry  Identifying the mirror line in a plane mirror | Mirrors Cartesian plane  Various symmetrical objects  Tracing and graph papers  Real life experiences | Discovering secondary mathematics Book 2 Page 32  Secondary mathematics KLB book 2 page  KLB teachers? guide book 2 page 14-20  Golden tips mathematics pages 230 |  |
| 5 | Reflection And Congruence | Lines and planes of symmetry | By the end of the lesson, the learner should be able to:  Identify the line of symmetry in a reflection Relate lines and planes of symmetry | Observing objects in plane mirrors Identifying the objects and their images in a plan mirror  Drawing Identifying lines of symmetry  Identifying the mirror line in a plane mirror | Mirrors Cartesian plane  Various symmetrical objects  Tracing and graph papers  Real life experiences | Discovering secondary mathematics Book 2 Page 32  Secondary mathematics KLB book 2 page 46-48 KLB teachers? guide book 2 page 19-20  Golden tips mathematics pages 230 |  |
| 6 | Reflection And Congruence | Reflection in the Cartesian plane | By the end of the lesson, the learner should be able to:  Apply the properties of a rotation in the Cartesian plane | Observing objects in plane mirrors Identifying the objects and their images in a plan mirror  Drawing Identifying lines of symmetry  Identifying the mirror line in a plane mirror | Mirrors Cartesian plane  Various symmetrical objects  Tracing and graph papers  Real life experiences | Discovering secondary mathematics Book 2 Page 37  Secondary mathematics KLB book 2 page 48  KLB teachers? guide book 2 page 19-20  Golden tips mathematics pages 230 |  |
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|  | 7 | Reflection And Congruence | Congruent triangles | By the end of the lesson, the learner should be able to:  Identify congruency Solve problems involving congruency | Observing objects in plane mirrors Identifying the objects and their images in a plan mirror  Drawing Identifying lines of symmetry  Identifying the mirror line in a plane mirror | Mirrors Cartesian plane  Various symmetrical objects  Tracing and graph papers  Real life experiences | Discovering secondary mathematics Book 2 Page 39  Secondary mathematics KLB book 2 page 64-65 KLB teachers? guide book 2 page 19-20  Golden tips mathematics pages 230 |  |
| **7** | 1 | Reflection And Congruence | Congruent figures | By the end of the lesson, the learner should be able to:  Identify figures which are congruent through reflection | Observing objects in plane mirrors Identifying the objects and their images in a plan mirror  Drawing Identifying lines of symmetry  Identifying the mirror line in a plane mirror | Mirrors Cartesian plane  Various symmetrical objects  Tracing and graph papers  Real life experiences | Discovering secondary mathematics Book 2 Page 40-41  Secondary mathematics KLB book 2 page 66  KLB teachers? guide book 2 page 19-20  Golden tips mathematics pages 230 |  |
| 2 | Rotation | The properties s of rotation | By the end of the lesson, the learner should be able to:  Define rotation as a transformation  State the properties of a rotation as a transformation | Rotating objects Measuring angles/lengths Drawing objects Identifying the lines of symmetry | Square boards Graph papers Geometrical instruments  Tracing paper and real life situations | Discovering secondary mathematics Book 2 Page 44-45  Secondary mathematics KLB book 2 page 73  KLB teachers? guide book 2 page 24-25  Golden tips mathematics pages 228 |  |
| 3 | Rotation | Center of angle of rotation | By the end of the lesson, the learner should be able to:  Rotate objects through a given angle of rotation and center of rotation Establish the angle of rotation given an object and its image | Rotating objects Measuring angles/lengths Drawing objects Identifying the lines of symmetry | Square boards Graph papers Geometrical instruments Tracing paper real life situations | Discovering secondary mathematics Book 2 Page 46  Secondary mathematics KLB book 2 page 74  KLB teachers? guide book 2 page 24-25  Golden tips mathematics pages 228 |  |
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|  | 4 | Rotation | Center of angle of rotation | By the end of the lesson, the learner should be able to:  Rotate objects through a given angle of rotation and center of rotation Establish the angle of rotation given an object and its image | Rotating objects Measuring angles/lengths Drawing objects Identifying the lines of symmetry | Square boards Graph papers Geometrical instruments Tracing paper real life situations | Discovering secondary mathematics Book 2 Page 46  Secondary mathematics KLB book 2 page 74  KLB teachers? guide book 2 page 24-25  Golden tips mathematics pages 228 |  |
| 5 | Rotation | Rotation in a Cartesian plane | By the end of the lesson, the learner should be able to:  Apply the properties of rotation in the Cartesian plane | Rotating objects Measuring angles/lengths Drawing objects Identifying the lines of symmetry | Square boards Graph papers Geometrical instruments Tracing paper real life situations | Discovering secondary mathematics Book 2 Page 47  Secondary mathematics KLB book 2 page 75  KLB teachers? guide book 2 page 24-25  Golden tips mathematics pages 228 |  |
| 6 | Rotation | Rotational symmetry | By the end of the lesson, the learner should be able to:  Identify point of rotational symmetry State the order of rotational symmetry of plane figures  Identify the axis of rotational symmetry | Rotating objects Measuring angles/lengths Drawing objects Identifying the lines of symmetry | Square boards Graph papers Geometrical instruments Tracing paper real life situations | Discovering secondary mathematics Book 2 Page 49  Secondary mathematics KLB book 2 page 78  KLB teachers? guide book 2 page 24-25  Golden tips mathematics pages 228 |  |
| 7 | Rotation | Congruence and Rotation | By the end of the lesson, the learner should be able to:  Deduce congruence from rotation | Rotating objects Measuring angles/lengths Drawing objects Identifying the lines of symmetry | Square boards Graph papers Geometrical instruments Tracing paper real life situations | Discovering secondary mathematics Book 2 Page 48  Secondary mathematics KLB book 2 page 84  KLB teachers? guide book 2 page 24-25  Golden tips mathematics pages 228 |  |
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| **8** | 1 | Similarity And Enlargement | Similar figures | By the end of the lesson, the learner should be able to:  Identify similar figures Construct similar figures | Identifying similar figures  Tracing figures Constructing similar figures  enlarging figures Drawing figures on the Cartesian plane measuring lengths/ angles | Geometrical instruments Model maps Photographs Charts illustrating similarity and enlargement | Discovering secondary mathematics Book 2 Page 52  Secondary mathematics KLB book 2 page 87  KLB teachers? guide book 2 page 27-28  Golden tips mathematics pages 125 |  |
| 2 | Similarity And Enlargement | Similar figures | By the end of the lesson, the learner should be able to:  Identify similar figures Construct similar figures | Identifying similar figures  Tracing figures Constructing similar figures  enlarging figures Drawing figures on the Cartesian plane measuring lengths/ angles | Geometrical instruments Model maps Photographs Charts illustrating similarity and enlargement | Discovering secondary mathematics Book 2 Page 52  Secondary mathematics KLB book 2 page 87  KLB teachers? guide book 2 page 27-28  Golden tips mathematics pages 125 |  |
| 3 | Similarity And Enlargement | Properties of enlargement | By the end of the lesson, the learner should be able to:  State the properties of enlargement as a transformation  Apply the properties of enlargement to construct objects and images | Identifying similar figures  Tracing figures Constructing similar figures  enlarging figures Drawing figures on the Cartesian plane measuring lengths/ angles | Geometrical instruments Model maps Photographs Charts illustrating similarity and enlargement | Discovering secondary mathematics Book 2 Page 52  Secondary mathematics KLB book 2 page 97  KLB teachers? guide book 2 page 27-28  Golden tips mathematics pages 125 |  |
| 4 | Similarity And Enlargement | Enlargement | By the end of the lesson, the learner should be able to:  State the scale factor State the center of enlargement | Identifying similar figures  Tracing figures Constructing similar figures  enlarging figures Drawing figures on the Cartesian plane measuring lengths/ angles | Geometrical instruments Model maps Photographs Charts illustrating similarity and enlargement | Discovering secondary mathematics Book 2 Page 57-58  Secondary mathematics KLB book 2 page 97  KLB teachers? guide book 2 page 27-28  Golden tips mathematics pages 125 |  |
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|  | 5 | Similarity And Enlargement | Enlargement on the Cartesian plane | By the end of the lesson, the learner should be able to:  Apply enlargement on Cartesian planes | Identifying similar figures  Tracing figures Constructing similar figures  enlarging figures Drawing figures on the Cartesian plane measuring lengths/ angles | Geometrical instruments Model maps Photographs Charts illustrating similarity and enlargement | Discovering secondary mathematics Book 2 Page 61-62  Secondary mathematics KLB book 2 page 97  KLB teachers? guide book 2 page 27-28  Golden tips mathematics pages 125 |  |
| 6 | Similarity And Enlargement | Enlargement on the Cartesian plane | By the end of the lesson, the learner should be able to:  Apply enlargement on Cartesian planes | Identifying similar figures  Tracing figures Constructing similar figures  enlarging figures Drawing figures on the Cartesian plane measuring lengths/ angles | Geometrical instruments Model maps Photographs Charts illustrating similarity and enlargement | Discovering secondary mathematics Book 2 Page 61-62  Secondary mathematics KLB book 2 page 97  KLB teachers? guide book 2 page 27-28  Golden tips mathematics pages 125 |  |
| 7 | Similarity And Enlargement | Linear, area and volume scale factors | By the end of the lesson, the learner should be able to:  Determine linear scale factor  Determine area scale factors  Determine volume scale factors  Relate area scale factor, volume scale factor, and linear scale factor | Identifying similar figures  Tracing figures Constructing similar figures  enlarging figures Drawing figures on the Cartesian plane measuring lengths/ angles | Geometrical instruments Model maps Photographs Charts illustrating similarity and enlargement | Discovering secondary mathematics Book 2 Page 62-65  Secondary mathematics KLB book 2 page 97-110 KLB teachers? guide book 2 page 27-28  Golden tips mathematics pages 125 |  |
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| **9** | 1 | Similarity And Enlargement | Areas of similar figures | By the end of the lesson, the learner should be able to:  Apply volume area and linear scale factors in establishing areas of similar figures | Identifying similar figures  Tracing figures Constructing similar figures  enlarging figures Drawing figures on the Cartesian plane measuring lengths/ angles | Geometrical instruments Model maps Photographs Charts illustrating similarity and enlargement | Discovering secondary mathematics Book 2 Page 62-64  Secondary mathematics KLB book 2 page 106-  108  KLB teachers? guide book 2 page 27-28  Golden tips mathematics pages 125 |  |
| 2 | Similarity And Enlargement | Volume of similar figures | By the end of the lesson, the learner should be able to:  Apply knowledge of linear scale factor and volume scale factor to determine values of similar figures | Identifying similar figures  Tracing figures Constructing similar figures  enlarging figures Drawing figures on the Cartesian plane measuring lengths/ angles | Geometrical instruments Model maps Photographs Charts illustrating similarity and enlargement | Discovering secondary mathematics Book 2 Page 64-65  Secondary mathematics KLB book 2 page 109-  111  KLB teachers? guide book 2 page 27-28  Golden tips mathematics pages 125 |  |
| 3 | Similarity And Enlargement | Application of scale factors in real life situations | By the end of the lesson, the learner should be able to:  Apply knowledge of linear scale factor and volume scale factor to determine values of similar figures | Identifying similar figures  Tracing figures Constructing similar figures  enlarging figures Drawing figures on the Cartesian plane measuring lengths/ angles | Geometrical instruments Model maps Photographs Charts illustrating similarity and enlargement | Discovering secondary mathematics Book 2 Page 66  Secondary mathematics KLB book 2 page 109-  111-112  KLB teachers? guide book 2 page 27-28  Golden tips mathematics pages 128 |  |
| 3 | Similarity And Enlargement | Application of scale factors in real life situations | By the end of the lesson, the learner should be able to:  Apply knowledge of linear scale factor and volume scale factor to determine values of similar figures | Identifying similar figures  Tracing figures Constructing similar figures  enlarging figures Drawing figures on the Cartesian plane measuring lengths/ angles | Geometrical instruments Model maps Photographs Charts illustrating similarity and enlargement | Discovering secondary mathematics Book 2 Page 66  Secondary mathematics KLB book 2 page 109-  111-112  KLB teachers? guide book 2 page 27-28  Golden tips mathematics pages 128 |  |
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|  | 4 | Pythagoras Theorem | Pythagoras Theorem | By the end of the lesson, the learner should be able to:  Derive Pythagoras Theorem | Deriving Pythagoras Theorem | Chalkboard Charts  Illustrating derived theorem | KLB BK2 Pg 120  Macmillan BK 2  Pg 105  Advancing in Math BK 2 Pg 86-88 |  |
| 5 | Pythagoras Theorem | Solutions of problems Using Pythagoras Theorem | By the end of the lesson, the learner should be able to:  Solve problems using Pythagoras  Theorem | Solving problems using Pythagoras theorem | Charts illustrating Pythagoras theorem | KLB BK2 Pg 121  Macmillan BK 2  Pg 106  Advancing in Math BK 2 Pg 89-90 |  |
| 6 | Pythagoras Theorem | Application to real life Situation | By the end of the lesson, the learner should be able to:  Use the formula A = ? s(s-a)(s-b)(s-c)  to solve problems in real life | Solving problems in real life using the formula  A = ?s(s-a)(s-b)(s-c) | Mathematical table | KLB BK2 Pg 159  Macmillan BK 2  Pg 143  Advancing in Math BK 2 Pg 115 |  |
| 7 | Pythagoras Theorem | Trigonometry Tangent, sine and cosines | By the end of the lesson, the learner should be able to:  Define tangent, sine and cosine ratios  from a right angles triangle | Defining what a tangent, Cosine and sine are using a right angled triangle | Charts illustrating tangent, sine and cosine | KLB BK2  Pg 123,132,133  Macmillan BK 2  Pg 112  Advancing in Math BK 2 Pg 94-95 |  |