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|  | **Western Mathematics**  **2013 Year 10**  **Half Yearly Examination**  **Mathematics Courses**  **Mapping Grids** | |
|  | The two exams have 50% of their content in common, which allows for comparision between students of a similar ability in the different courses, for allocation of grades etc. The common sections are highlighted. All the short answer, non calculator section is common, and the last 25 MC questions in the Mathematics paper are common with the first 25 MC questions in the Advanced Maths Paper.  Some schools do not persist with non-calculator sections after the NAPLAN stages, but we feel it is still worthwhile. If you prefer, just call the first section the Short Answer Section.  Any feedback would be appreciated, as it will help with future papers, in particular for the Year 10 Yearly exam, which will be of a similar format.  All the best  Garry Thorn  WME | |
|  | **Year 10 Maths Course** | **Year 10 Advanced Course** |
|  | **Short Answer (Common)** | **Short Answer (Common)** |
|  | Rational numbers | Rational numbers |
|  | Rational numbers | Rational numbers |
|  | Rational numbers | Rational numbers |
|  | Earning | Earning |
|  | Spending | Spending |
|  | Ratio and Rates | Ratio and Rates |
|  | Ratio and Rates | Ratio and Rates |
|  | Basic Geometry Angles | Basic Geometry Angles |
|  | Basic Geometry Triangles | Basic Geometry Triangles |
|  | Basic Geometry Polygons | Basic Geometry Polygons |
|  | Basic Measurement Units | Basic Measurement Units |
|  | Perimeter | Perimeter |
|  | Area | Area |
|  | Volume of Prisms | Volume of Prisms |
|  | Pythagoras’ Theorem | Pythagoras’ Theorem |
|  | Basic Algebraic Techniques | Basic Algebraic Techniques |
|  | Basic Algebraic Techniques | Basic Algebraic Techniques |
|  | Basic Algebraic Techniques | Basic Algebraic Techniques |
|  | Coordinate Geometry | Coordinate Geometry |
|  | Indices | Indices |
|  | Equations and Inequalities | Equations and Inequalities |
|  | Collecting and Representing Data | Collecting and Representing Data |
|  | Collecting and Representing Data | Collecting and Representing Data |
|  | Measures of Central Tendency | Measures of Central Tendency |
|  | Measures of Central Tendency and Spread | Measures of Central Tendency and Spread |
|  | **Multiple Choice** | **Multiple Choice** |
|  | Rational numbers | Spending |
|  | Rational numbers | Compound Interest |
|  | Ratio and rates | Compound Interest |
|  | Earning | Depreciation |
|  | Spending | Ratio and Rates |
|  | Basic Geometry Angles | Basic Geometry Angles |
|  | Basic Geometry Angles | Basic Geometry Triangles |
|  | Basic Geometry Transformations | Basic Geometry Transformations |
|  | Basic Geometry Triangles | Basic Geometry Polygons |
|  | Basic Geometry Polygons | Basic Geometry Polygons |
|  | Area | Volume of Cylinders |
|  | Compound Area | Surface Area of Prisms |
|  | Volume of Prisms | Surface Area of Cylinder |
|  | Pythagoras’ Theorem | Right Triangle Trigonometry |
|  | Right Triangle Trigonometry | Right Triangle Trigonometry |
|  | Basic Algebraic Techniques | Factors |
|  | Basic Algebraic Techniques | Coordinate Geometry |
|  | Coordinate Geometry | Coordinate Geometry |
|  | Indices | Indices |
|  | Equations and Inequalities | Equations and Inequalities |
|  | Collecting Data | Representing Data reading graph |
|  | Representing Data | Representing Data - Skew |
|  | Measures of Central Tendency Dot Plot | Measures of Central Tendency - S & L |
|  | Measures of Central Tendency Frequency Histogram | Measures of Spread - Quartiles |
|  | Measures of Spread – Quartiles | Central Tendency – Comparing sets of Data. |
|  | Spending | Compound Interest |
|  | Compound Interest | Depreciation |
|  | Compound Interest | Indices |
|  | Depreciation | Surds |
|  | Ratio and Rates | Surds |
|  | Basic Geometry Angles | Basic Geometry Triangles |
|  | Basic Geometry Triangles | Basic Geometry Polygons |
|  | Basic Geometry Transformations | Volume of Spheres. |
|  | Basic Geometry Polygons | Surface Area of Pyramids. |
|  | Basic Geometry Polygons | Surface Area of Cones. |
|  | Volume of Cylinders | Binomial Products |
|  | Surface Area of Prisms | Binomial Factors |
|  | Surface Area of Cylinder | Binomial Factors |
|  | Right Triangle Trigonometry | Simultaneous Equations |
|  | Right Triangle Trigonometry | Simultaneous Equations |
|  | Factors | Graphs of Physical Phenomena |
|  | Coordinate Geometry | Quadratic Equations |
|  | Coordinate Geometry | Quadratic Equations |
|  | Indices | Non Linear Graphs |
|  | Equations and Inequalities | Distance Time Graphs. |
|  | Representing Data reading graph | Basic Probability |
|  | Representing Data - Skew | Basic Probability |
|  | Measures of Central Tendency - S & L | Measures of Central Tendency and shape of distribution |
|  | Measures of Spread - Quartiles | Measures of Spread – SD |
|  | Central Tendency – Comparing sets of Data. | Box Plots |

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|  | **Longer Answer Questions** | | **Longer Answer Questions** | |
|  | Ratio and Rates (N) | 3 | Surds (N) | 3 |
|  | Geometry (G) | 3 | Surface Area and Volume of Prisms, Cylinders, Pyramids, Cones and Spheres.(M) | 3 |
|  | Surface Area and Volume of Prisms and Cylinder | 3 | Right Triangle Trigonometry (M) | 3 |
|  | Right Trigonometry (M) | 4 | Compound Interest and Depreciation (N) | 3 |
|  | Compound Interest and Depreciation (N) | 3 | Binomial Products and Factors (A) | 3 |
|  | Data: Measures of Central Tendency and Spread. (D) | 3 | Quadratic Equations (A) | 4 |
|  | Products and Equations (A) | 3 | Non Linear Graphs (A) | 3 |
|  | Coordinate Geometry (A) | 3 | Data: Measures of Central Tendency and Spread. (D) | 3 |