**Year 8 Mathematics**

**Assessment Task 2 - 2023**

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| **TOPIC:** Indices, Right Angled Triangle, Algebraic Techniques | **MARKS:**  45 marks |
| **SUBMISSION REQUIREMENTS:**  In class test (1 Hour) with 1 x A4 double-sided summary sheet  **Term 2 – Week 5 – Thursday 25th May 2023 – 8R**  **Term 2 – Week 5 – Friday 26th May 2023 – 8O 8Y 8G 8G 8I** |  |
| **OUTCOMES TO BE ASSESSED:**  MA4-8NA **Generalises** number properties to **operate** with algebraic representation.  MA4-9NA **Operates** with positive-integer and zero indices of numerical bases.  MA4-16MG Applies Pythagoras theorem to **calculate** side lengths in right-angled triangles, and solves related problems. | |
| **DIRECTIONAL VERBS:**  Generalise – collect and simplify facts and numbers  Operate – adding, subtracting, multiplying and dividing  Apply – Use, utilise, employ in a particular situation  Calculate –Ascertain/determine from given facts, figures or information | |
| **TASK DESCRIPTION:**  This assessment is an in-class test that includes the following topics:   1. Indices: 5 multiple choice questions (5 Marks) and 5 short answer questions (10 Marks) 2. Right Angled Triangle: 5 multiple choice questions (5 Marks) and 5 short answer questions (10 Marks) 3. Algebraic Techniques: 5 multiple choice questions (5 Marks) and 5 short answer questions (10 Marks)   1 x A4 double-sided summary sheet will be completed in class that can be taken into the class to assist with the questions. Students may use their own summary sheet.   |  |  |  | | --- | --- | --- | | Indices | Right Angled Triangle | Algebraic Techniques | | * Index notation * Multiplying and dividing indices * Power of zero * Raising a power to a power * Mixed indices | * Pythagoras rule * Converting to Pythagoras theorem * Finding the hypotenuse * Finding the sorter side * Problem solving | * Substitution * Collecting like terms * Multiplying and dividing terms * Expanding brackets * Factorising algebraic terms * Worded problems | | |
| **ASSESSMENT CRITERIA:**  • You will be marked on your ability to answer the questions correctly in the test paper. Summary sheet will not be marked. | |