**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 numbersOperate – adding, subtracting, multiplying and dividingApply – Use, utilise, employ in a particular situationCalculate –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.

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| 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
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| **ASSESSMENT CRITERIA:**• You will be marked on your ability to answer the questions correctly in the test paper. Summary sheet will not be marked.  |