



# JOHN EDMONDSON HIGH SCHOOL

## Assessment Notification

Faculty: Mathematics

Course: Mathematics

Year: 8

Assessment Task: 1

Assessment Weighting: 20%

Due: Term 1, Week 8

Date: Thursday 21<sup>st</sup> March for 8V

Task Type: Hand in Task  In Class Task  Practical Task

<b>Outcomes assessed (NESA)</b>
<b>MA4-ALG-C-01, MA4-IND-C-01, MAO-WM-01</b> Please Note: Further information about these outcome codes can be found on the NESA Website
<b>Task Description/Overview</b>
This in class written examination will consist of short answer questions. No reference material is allowed during the examination.  Time allowed: 45 minutes Equipment Required: Black Pen(s) and a NESA approved calculator.  <i><b>NOTE:</b> This is a differentiated (modified) assessment task. Students in 8V will be provided the opportunity to complete the unmodified assessment task, given to Year 8 students in other classes, following the due date of this task.</i>
<b>Detailed Assessment Task Description</b>
Students may be asked questions relating to the following topics:  <b>Algebraic techniques:</b> <ul style="list-style-type: none"><li>• Substitute numbers into algebraic expressions and evaluate the result</li><li>• Identify like terms, and add and subtract them to simplify algebraic expressions</li><li>• Simplify algebraic expressions that involve multiplication and division</li><li>• Simplify algebraic expressions involving mixed operations</li><li>• Explain the role and meaning of grouping symbols in algebraic expressions</li><li>• Apply the distributive law to expand and simplify algebraic expressions by removing grouping symbols</li><li>• Identify and list factors of a single term</li></ul> <b>Indices:</b> <ul style="list-style-type: none"><li>• Describe numbers written in index form using terms such as base, power, index and exponent</li><li>• Represent numbers in index notation limited to positive powers</li><li>• Represent in expanded form and evaluate numbers expressed in index notation, including powers of 10</li><li>• Apply the order of operations to evaluate expressions involving indices</li><li>• Establish the multiplication, division and the power of a power index laws, by expressing each number in expanded form with numerical bases and positive-integer indices</li><li>• Establish the meaning of the zero index</li><li>• Apply index laws to simplify and evaluate expressions with numerical bases</li></ul>

<b>Test/Examination Structure</b>	
<b>Section Description</b>	<b>Marks Available</b>
Algebraic techniques	15
Indices	25
<b>Total Marks for this task</b>	<b>40</b>

**Satisfactory completion of courses**

A course has been satisfactorily completed when the student has:

- Followed the course developed/endorsed by the NSW Educational Standards Authority (NESA)
- Applied himself/herself with diligence and sustained effort to the set tasks and experiences provided in the course.
- Achieved some or all of the course outcomes.