	NOTICE OF ASSESSMENT **YEAR: 12** **COURSE: Mathematics Standard 1 - ATAR**		
TASK NAME:	In-Class Test		
TASK NO:	3	**WEIGHTING:**	20 %
DATE DUE:	09/06/2022	**SUBMISSION TYPE:**	In-class Test
DATE ISSUED:	26/05/2022		
TOPIC AREA:	Algebra - Types of Relationships Measurement - Right-angled triangles and Scale Drawings		

TASK DESCRIPTION:

The test will consist of a mix of multiple choice and short response questions.

All questions worth more than one mark will have marks assigned to mathematical reasoning and justification. Working needs to be shown for these questions to receive full marks.

You may bring notes on an A4 piece of paper for each of the three topics being assessed (3 pages in total). These notes can be handwritten or typed, and can be double-sided. If typed, Arial font with minimum size 11. No screenshots of texts or photocopies of handouts allowed.

You will be provided with a Standard Mathematics **Reference Sheet**.

NESA approved **calculators** may be used. **Rulers** may also be required.

OUTCOMES ASSESSED:

MS1-12-1 uses algebraic and graphical techniques to evaluate and construct arguments in a range of familiar and unfamiliar contexts
MS1-12-3 interprets the results of measurements and calculations and makes judgements about their reasonableness
MS1-12-4 analyses simple two dimensional and three dimensional models to solve practical problems
MS1-12-6 represents the relationships between changing quantities in algebraic and graphical forms
MS1-12-10 uses mathematical argument and reasoning to evaluate conclusions, communicating a position clearly to others

SUCCESS CRITERIA:

To be successful in this task, students must justify their responses through appropriate mathematical reasoning in the following topics:

Types of Relationships

- Solve a pair of simultaneous equations graphically
- Develop a pair of simultaneous equations to model a practical situation
- Solve practical problems involving simultaneous equations, including break-even analysis
- Construct a graph from a table of values
- Sketch the shape of a graph from a description
- Determine the best model to approximate a graph (linear or exponential)
- Identify the strengths and limitations on linear and non-linear models

Right-angled triangles

- Use Pythagoras' theorem to solve practical problems
- Use trigonometric ratios to solve practical problems
- Solve problems involving compass and bearings, and angles of elevation and depression

Scale drawings

- Express ratios in simplest form
- Use scale drawings, building plans and maps
- Solve practical problems using scale drawings and factors

FEEDBACK TYPE:

The teacher will provide feedback outlining strengths and areas for improvement to build on knowledge, understanding and skills for future learning. This will be done through written annotations of the assessment script and verbal feedback at a whole class and individual level upon the return of the assessment.