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Year 10 SyllabusTest

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Year Level Description

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	Year level descriptors
	Content Descriptions
Þ	Achievements Standards
Þ	lcons
Y	ear Levels

🗖 Select All

Strands

- 🗖 Select All
- Statistics and Probability
- Measurement and Geometry
- Number and Algebra

General Capabilities

- 🕞 Select All
- Literacy
- Numeracy
- Information and Communication Technology (ICT)

capability

Year 10 Sylla

Year Level Descri

The proficiency stra **reasoning** are an i strands: number an probability. The pro within the content a provide the languag mathematics. The a proficiencies.

At this year level:

- understanding
 finding unknowns
 equations of relations in financial conte
 experiments
- fluency includes
 of strategies to s
 data sets
- problem-solvin range of prisms t using application find solutions to s independence of
- **reasoning** inclue similarity, interpr

- Critical and creative thinking
- Personal and social capability
- 🕞 Ethical understanding
- Intercultural understanding

comparing data s

Number and Algebra

MONEY AND FINANCIA MATHEMATICS

Connect the compo interest formula to repeated applicatio simple interest usir appropriate digital technologies (ACMNA229)

Numeracy

Information andCommunication Techr(ICT) capability

PATTERNS AND ALGEBI

Factorise algebraic expressions by taki out a common alge factor <u>(ACMNA230)</u>

Numeracy

Simplify algebraic products and quotie using index laws (ACMNA231)

Numeracy

Apply the four oper to simple algebraic fractions with nume denominators (ACMNA232)

NumeracyCritical and creativthinking

Expand binomial products and factor monic quadratic expressions using a variety of strategie: (ACMNA233)

Numeracy

Substitute values ir formulas to determ unknown <u>(ACMNA2</u>)

Numeracy

LINEAR AND NON-LINE RELATIONSHIPS

Solve problems invelinear equations, including those der from formulas (ACMNA235)

🖫 Numeracy

Solve linear inequa and graph their solu on a number line (ACMNA236)

Salary Numeracy

Solve linear simultaneous equal using algebraic and graphical technique including using digi technology <u>(ACMN/</u>

Rest Numeracy

i ⊂ Information andCommunication Techr(ICT) capability

Solve problems invo

parallel and perpendicular lines (ACMNA238)

■ Literacy➡ Numeracy

Explore the connect between algebraic graphical representations of relations such as sin quadratics, circles a exponentials using digital technology a appropriate <u>(ACMN</u>,

■ Literacy

Numeracy

Information andCommunication Techr(ICT) capability

Solve linear equatic involving simple algebraic fractions (ACMNA240)

Numeracy

Solve simple quadra equations using a ra of strategies (ACMNA241)

NumeracyCritical and creativthinking

Year 10 Achieve

Number and Alge

At Standard, studer interest. They solve make the connectic They expand binom Students find unkno four operations with equations and pairs

Measurement and

Students solve surf recognise the relati deductive reasonin use triangle and an trigonometry to cal

Statistics and Prc

Students compare (They describe bivar describe statistical statistical reports. S assign probabilities quartile ranges.

The proficiency strands **understanding, fluency, problem-s** content across the three content strands: number and algebra, proficiencies reinforce the significance of working mathematica or developed. They provide the language to build in the develo achievement standards reflect the content and encompass the

At this year level:

- understanding includes applying the four operations to algorithm making the connection between equations of relations and the contexts and determining probabilities of two- and three-step
- fluency includes factorising and expanding algebraic expres calculations to investigate the shape of data sets
- problem-solving includes calculating the surface area and finding unknown lengths and angles using applications of tric solutions to simultaneous equations and inequalities and inve
- reasoning includes formulating geometric proofs involving c statements and interpreting and comparing data sets.

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Assessing

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