The Authority   Kindergarten to Year 10   Years 11 and 12   Student

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Year 10 SyllabusTest

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Year Level Description

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☑ Year level descriptors

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Year 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 rela
  in financial conte
  experiments
- **fluency** includes
  of strategies to s
  data sets
- **problem-solving**
  range of prisms t
  using application
  find solutions to s
  independence of
- **reasoning** inclu
  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 and Communication Techn (ICT) capability

PATTERNS AND ALGEBI

Factorise algebraic expressions by taki out a common alge factor [(ACMNA230)](#)

▣ Numeracy

Simplify algebraic products and quotie[nts]
using index laws
(ACMNA231)

Apply the four oper[ations]
to simple algebraic
fractions with nume[ric]
denominators
(ACMNA232)

Expand binomial
products and factor[ise]
monic quadratic
expressions using a
variety of strategie[s]
(ACMNA233)

Substitute values in[to]
formulas to determ[ine]
unknown (ACMNA2[34])

LINEAR AND NON-LINE[AR] RELATIONSHIPS

Solve problems inv[olving] linear equations, including those der[ived] from formulas (ACMNA235)

⊞ Numeracy

Solve linear inequa[lities] and graph their solu[tions] on a number line (ACMNA236)

⊞ Numeracy

Solve linear simultaneous equat[ions] using algebraic and graphical technique[s] including using digi[tal] technology (ACMN[A...])

⊞ Numeracy

⠄ Information and Communication Techn[ology] (ICT) capability

Solve problems inv[olving]

parallel and perpendicular lines [(ACMNA238)](#)

📄 Literacy

🔢 Numeracy

Explore the connec between algebraic graphical representations of relations such as si quadratics, circles exponentials using digital technology appropriate [(ACMN](#)

📄 Literacy

🔢 Numeracy

⠒ Information and Communication Tech (ICT) capability

Solve linear equati involving simple algebraic fractions [(ACMNA240)](#)

🔢 Numeracy

Solve simple quadra
equations using a r
of strategies
[(ACMNA241)](#)

Numeracy

Critical and creativ
thinking

Year 10 Achieve

Number and Alge

At Standard, studen
interest. They solve
make the connectio
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 Pro

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 develop achievement standards reflect the content and encompass the

At this year level:

- **understanding** includes applying the four operations to alg making the connection between equations of relations and th contexts and determining probabilities of two- and three-ste
- **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 trig solutions to simultaneous equations and inequalities and inve
- **reasoning** includes formulating geometric proofs involving statements and interpreting and comparing data sets.

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