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Year 9 SyllabusTest

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Year Level Description

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- ☑ Year level descriptors
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- ☑ Achievements Standards
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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 9 Syllab

Year Level Descri

The proficiency str
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**
  equations, simpli
  relative frequenc
  right-angle triang
- **fluency** includes
  expressing numb
  developing famili
  calculating areas
- **problem-solving**
  involving surface
  factors to similar
  collecting data fr
- **reasoning** inclu
  and using statisti
  investigating sim

- ☑ **Critical and creative thinking**
- ☑ **Personal and social capability**
- ☑ **Ethical understanding**
- ☑ **Intercultural understanding**

Number and Algebra

REAL NUMBERS

Solve problems inv direct proportion. Explore the relation between graphs an equations correspo to simple rate prob [(ACMNA208)](#)

- ▤ Literacy
- ▦ Numeracy
- ◉ Critical and creativ thinking

Apply index laws to numerical expressi with integer indices [(ACMNA209)](#)

- ▦ Numeracy

Express numbers in scientific notation [(ACMNA210)](#)

⊞ Numeracy

MONEY AND FINANCIAL MATHEMATICS

Solve problems inv
simple interest
[(ACMNA211)](#)

⊟ Literacy

⊞ Numeracy

◉ Critical and creativ
thinking

PATTERNS AND ALGEBI

Extend and apply tl
index laws to variab
using positive integ
indices and the zer
index [(ACMNA212)](#)

⊞ Numeracy

Apply the distributiv
to the expansion of
algebraic expressio
including binomials
collect like terms w
appropriate [(ACMN](#)

⊞ Numeracy

LINEAR AND NON-LINEAR RELATIONSHIPS

Find the distance between two points located on the Cartesian plane using a range of strategies, including graphing software [(ACMNA214)](#)

⊞ Numeracy

⋮⋱ Information and Communication Technology (ICT) capability

Find the midpoint and gradient of a line segment (interval) on the Cartesian plane using a range of strategies, including graphing software [(ACMNA294)](#)

⊞ Numeracy

⋮⋱ Information and Communication Technology (ICT) capability

Sketch linear graph

using the coordinat
two points and solv
linear equations
[(ACMNA215)](#)

⊞ Numeracy

◎ Critical and creativ
thinking

Graph simple non-li
relations with and
without the use of c
technologies and so
simple related equa
[(ACMNA296)](#)

▤ Literacy

⊞ Numeracy

⋮ᴋ Information and
Communication Techn
(ICT) capability

◎ Critical and creativ
thinking

Year 9 Achieven

Number and Alge

At Standard, studen

index laws to numb
binomial expression
plane and the gradi
non-linear relations

Measurement and

Students interpret n
triangles. Students
trigonometric ratios
area of right prisms
trigonometry to find

Statistics and Pro

Students calculate
two-step experimen
techniques for colle
construct histogram
position of the mea
describe and interp

The proficiency strands **understanding, fluency, problem-so**
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 describing the relationship between expressions and explaining the use of relative frequencies to angle triangles
- **fluency** includes applying the index laws to expressions with outcomes for experiments, developing familiarity with calcula shapes and surface areas of prisms
- **problem-solving** includes formulating and modelling practic prisms, applying ratio and scale factors to similar figures, sol data from secondary sources to investigate an issue
- **reasoning** includes following mathematical arguments, eval situations, developing strategies in investigating similarity ar

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