Year 8 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 8 Syllab

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**
  decimals, identify
  arithmetic, conne
  purpose of statist
  area
- **fluency** includes
  integers; recogni
  recurring decima
  evaluating perim
  dimensional obje
- **problem-solvin**
  involving ratios, p
  using two-way ta
- **reasoning** inclu
  reasonable, deriv

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

deduce propertie
populations.

Number and Algebra

NUMBER AND PLACE V

Use index notation
numbers to establis
index laws with pos
integral indices and
zero index (ACMNA

Numeracy

Carry out the four
operations with rati
numbers and intege
using efficient men
and written strateg
and appropriate dig
technologies
(ACMNA183)

Numeracy

Information and
Communication Techr
(ICT) capability

REAL NUMBERS

Investigate termina
and recurring decin
(ACMNA184)

Numeracy

Investigate the con
of irrational numbe
including π (ACMNA

Numeracy

Solve problems inv
the use of percenta
including percentag
increases and decre
with and without di
technologies
(ACMNA187)

Literacy

Numeracy

Information and
Communication Techr
(ICT) capability

Critical and creativ
thinking

Solve a range of

problems involving
and ratios, with and
without digital
technologies
(ACMNA188)

Literacy

Numeracy

Information and
Communication Techn
(ICT) capability

Critical and creativ
thinking

MONEY AND FINANCIA MATHEMATICS

Solve problems inv
profit and loss, with
without digital
technologies
(ACMNA189)

Literacy

Numeracy

Information and
Communication Techn
(ICT) capability

Critical and creativ
thinking

PATTERNS AND ALGEBI

Extend and apply tl
distributive law to t
expansion of algebı
expressions (ACMN

Numeracy

Factorise algebraic
expressions by
identifying numeric
factors (ACMNA191

Numeracy

Simplify algebraic
expressions involvi
four operations
(ACMNA192)

Numeracy

LINEAR AND NON-LINE
RELATIONSHIPS

Plot linear relations
on the Cartesian pl
with and without th
of digital technolog
(ACMNA193)

Numeracy

Information and Communication Techr (ICT) capability

Solve linear equatic using algebraic and graphical technique Verify solutions by substitution (ACMN

Numeracy

Critical and creativ thinking

Year 8 Achieven

Number and Alge

At Standard, studer percentages. They describe rational ar loss. Students mak expressions. They u operations with inte solve linear equatic

Measurement an

Students solve prob
duration in real app
triangles and deduc
measurement for a
perimeter and area
of circles and calcu

Statistics and Pro

Students model aut
choose appropriate
issues related to th
medians in that dat
and calculate the s

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 describing patterns involving indice operations with algebra and arithmetic, connecting rules for statistical measures and explaining measurements of perime
- **fluency** includes calculating accurately with simple decimals decimals and fractions including recurring decimals; factorisi perimeters and areas of common shapes and volumes of thre

- **problem-solving** includes formulating and modelling practi
  perimeters of common shapes and using two-way tables and
- **reasoning** includes justifying the result of a calculation or es
  complement, using congruence to deduce properties of trian

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