Year 7 SyllabusTest

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Year Level Description

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- Year level descriptors
- Content Descriptions
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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 7 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**
  numbers, recogn
  ratios, plotting p
  transversal cross
  numbers to algeb
- **fluency** includes
  decimals in vario
  tendency and cal
- **problem-solvin**
  numbers and me
  symmetry, calcul
  chance experime
- **reasoning** inclu
  geometric facts t
  ratio and interpre

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

Number and Algebra

NUMBER AND PLACE V

Investigate index notation and repres whole numbers as products of powers prime numbers (ACMNA149)

Numeracy

Investigate and us square roots of per square numbers (ACMNA150)

Numeracy

Apply the associati commutative and distributive laws to mental and written computation (ACMNA151)

Numeracy

Compare, order, ad
subtract integers
(ACMNA280)

Numeracy

REAL NUMBERS

Compare fractions
equivalence. Locate
represent positive a
negative fractions a
mixed numbers on
number line (ACMN

Literacy

Numeracy

Solve problems inv
addition and subtra
of fractions, includi
those with unrelate
denominators
(ACMNA153)

Literacy

Numeracy

Critical and creativ
thinking

Multiply and divide

fractions and decim
using efficient writt
strategies and digit
technologies
(ACMNA154)

Numeracy

Information and
Communication Techr
(ICT) capability

Express one quanti
a fraction of anothe
with and without th
of digital technolog
(ACMNA155)

Numeracy

Information and
Communication Techr
(ICT) capability

Round decimals to
specified number o
decimal places
(ACMNA156)

Numeracy

Connect fractions,
decimals and

percentages and ca
out simple conversi
(ACMNA157)

Numeracy

Information and
Communication Techr
(ICT) capability

Find percentages o
quantities and expr
one quantity as a
percentage of anot
with and without di
technologies
(ACMNA158)

Numeracy

Information and
Communication Techr
(ICT) capability

Recognise and solv
problems involving
simple ratios
(ACMNA173)

Literacy

Numeracy

Critical and creativ

thinking

MONEY AND FINANCIA MATHEMATICS

Investigate and cal 'best buys', with an without digital technologies (ACMNA174)

- Literacy
- Numeracy
- Information and Communication Techr (ICT) capability
- Critical and creativ thinking

PATTERNS AND ALGEBI

Introduce the conce variables as a way representing numb using letters (ACMNA175)

- Critical and creativ thinking

Create algebraic

expressions and evaluate them by substituting a given value for each varia (ACMNA176)

Numeracy

Critical and creativ thinking

Extend and apply th laws and properties arithmetic to algebr terms and expressi (ACMNA177)

Literacy

Numeracy

Critical and creativ thinking

LINEAR AND NON-LINE RELATIONSHIPS

Given coordinates, points on the Carte plane, and find coordinates for a gi point (ACMNA178)

Numeracy

Critical and creativ thinking

Solve simple linear equations (ACMNA1

Numeracy

Critical and creativ thinking

Investigate, interpr analyse graphs fror authentic data (ACMNA180)

Literacy

Numeracy

Critical and creativ thinking

Year 7 Achieven

Number and Alge

At Standard, studer subtraction of integ index notation and Students use fracti express one quanti

problems involving
They compare the
numbers using vari
algebra. Students a
interpret simple lin
solve simple linear
substitution.

Measurement an

Students describe
transformations in
involving angles for
the area and perim
Students classify tr
formed by a transv

Statistics and Pr

Students identify is
stem-and-leaf plots
median and mean i
for data sets. Stude
equally likely outco

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 in uses of indic fractions, decimals, percentages and ratios, plotting points o crossing a pair of lines, and connecting the laws and properti
- **fluency** includes calculating accurately with integers, repres buys, finding measures of central tendency and calculating a
- **problem-solving** includes formulating and solving authentic transformations and identifying symmetry, calculating angles experiments
- **reasoning** includes applying the number laws to calculation shapes, applying an understanding of ratio and interpreting c

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