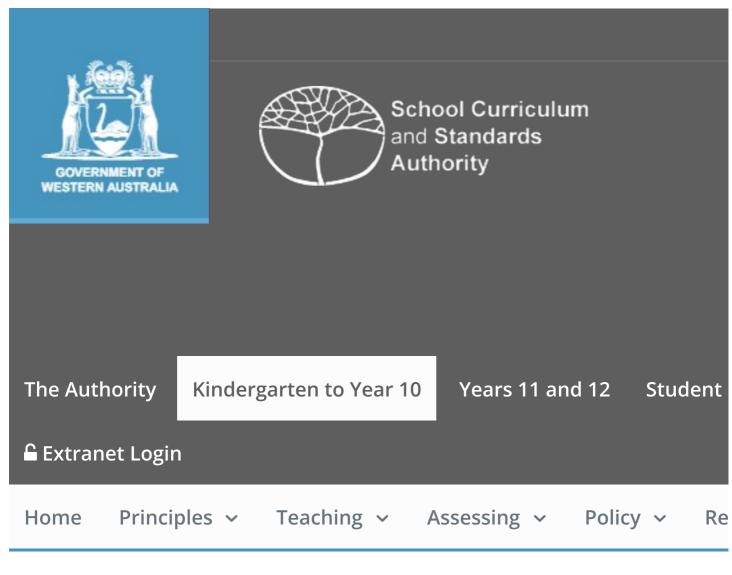
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# Year 9 SyllabusTest

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**Year Level Description** 

## **Filters**



### Show/Hide Curriculum

- ▼ Year level descriptors
- **□** Content Descriptions
- Achievements Standards
- □ Icons

#### 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 Syllak

#### **Year Level Descri**

reasoning are an istrands: number an probability. The prowithin the content aprovide the language mathematics. The approficiencies.

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 included and using statistic investigating sim

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

# Number and Algebra

#### **REAL NUMBERS**

Solve problems invedirect proportion.

Explore the relation between graphs an equations correspoto simple rate problems (ACMNA208)

■ Literacy

Numeracy

Critical and creative thinking

Apply index laws to numerical expression with integer indices (ACMNA209)

Numeracy

Express numbers ir scientific notation (ACMNA210)

Numeracy

# MONEY AND FINANCIA MATHEMATICS

Solve problems invesimple interest
(ACMNA211)

■ Literacy

Numeracy

Critical and creative thinking

#### **PATTERNS AND ALGEBI**

Extend and apply the index laws to variable using positive integration index (ACMNA212)

Numeracy

Apply the distribution to the expansion of algebraic expression including binomials collect like terms where the expression including binomials collect like terms where the expression including binomials collect like terms where the expansion is the expansion of the expansion o

Numeracy

# LINEAR AND NON-LINE RELATIONSHIPS

Find the distance between two points located on the Cart plane using a range strategies, including graphing software (ACMNA214)

Numeracy

Information and Communication Techr (ICT) capability

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

Numeracy

Information and Communication Techr (ICT) capability

Sketch linear graph

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

Numeracy

Critical and creative thinking

Graph simple non-li relations with and without the use of a technologies and sa simple related equa (ACMNA296)

■ Literacy

Numeracy Numeracy

Information and Communication Techr (ICT) capability

Critical and creativ thinking

### Year 9 Achieven

## **Number and Alge**

At Standard, studer

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

#### Measurement and

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

### **Statistics and Pro**

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

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 developed 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 calcular shapes and surface areas of prisms
- problem-solving includes formulating and modelling practices prisms, applying ratio and scale factors to similar figures, solution data from secondary sources to investigate an issue
- **reasoning** includes following mathematical arguments, eval situations, developing strategies in investigating similarity ar

<u>Principles</u>

**Teaching** 

**Assessing** 

**Policy** 

Resources

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