National Curriculum Links

Australian Curriculum for Mathematics

This maps entries in the **Australian Mathematics Curriculum (from Foundation Stage to Year 7)** to the content of chapters of Haylock & Manning, *Mathematics Explained for Primary Teachers*, Australian edition.

# Chapters 19–20: Algebraic reasoning, coordinates and linear relationships

## Foundation Year

* Sort and classify familiar objects and explain the basis for these classifications
* Copy, continue and create patterns with objects and drawings

## Year 1

* Investigate and describe number patterns formed by skip counting and patterns with objects

## Year 2

* Describe patterns with numbers and identify missing elements
* Solve problems by using number sentences for addition or subtraction

## Year 3

* Describe, continue, and create number patterns resulting from performing addition or subtraction

## Year 4

* Explore and describe number patterns resulting from performing multiplication
* Solve word problems by using number sentences involving multiplication or division where there is no remainder
* Find unknown quantities in number sentences involving addition and subtraction and identify equivalent number sentences involving addition and subtraction

## Year 5

* Describe, continue and create patterns with fractions, decimals and whole numbers resulting from addition and subtraction
* Find unknown quantities in number sentences involving multiplication and division and identify equivalent number sentences involving multiplication and division

## Year 6

* Continue and create sequences involving whole numbers, fractions and decimals
* Describe the rule used to create the sequence
* Explore the use of brackets and order of operations to write number sentences

## Year 7

* Introduce the concept of variables as a way of representing numbers using letters
* Create algebraic expressions and evaluate them by substituting a given value for each variable
* Extend and apply the laws and properties of arithmetic to algebraic terms and expressions
* Given coordinates, plot points on the Cartesian plane, and find coordinates for a given point
* Solve simple linear equations
* Investigate, interpret and analyse graphs from authentic data