

# Australian Mathematics Curriculum correlations

Mathematics Year 3	Bicycle lock	Cheating husband	Code breakers	Lost dog	Graffiti artist	Border patrol	Jelly beans	Cat burglar
<b>NUMBER AND ALGEBRA</b>								
<b>Number and place value</b>								
Apply place value to partition, rearrange and regroup numbers to at least 10 000 to assist calculations and solve problems (ACMNA053)		✓						
Recognise and explain the connection between addition and subtraction (ACMNA054)		✓	✓					
Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation (ACMNA055)						✓	✓	
Recall multiplication facts of two, three, five and ten and related division facts (ACMNA056)	✓		✓					
Represent and solve problems involving multiplication using efficient mental and written strategies and appropriate digital technologies (ACMNA057)		✓						
<b>Patterns and algebra</b>								
Describe, continue, and create number patterns resulting from performing addition or subtraction (ACMNA060)	✓		✓					
<b>MEASUREMENT AND GEOMETRY</b>								
<b>Using units of measurement</b>								
Tell time to the minute and investigate the relationship between units of time (ACMMG062)					✓			
<b>Location and transformation</b>								
Create and interpret simple grid maps to show position and pathways (ACMMG065)				✓		✓		
<b>STATISTICS AND PROBABILITY</b>								
<b>Data representation and interpretation</b>								
Collect data, organise into categories and create displays using lists, tables, picture graphs and simple column graphs, with and without the use of digital technologies (ACMSP069)							✓	✓
Interpret and compare data displays (ACMSP070)							✓	✓

# Australian Mathematics Curriculum correlations continued

Mathematics Year 4	Bicycle lock	Cheating husband	Code breakers	Lost dog	Graffiti artist	Border patrol	Jelly beans	Cat burglar
<b>NUMBER AND ALGEBRA</b>								
<b>Number and place value</b>								
Apply place value to partition, rearrange and regroup numbers to at least tens of thousands to assist calculations and solve problems (ACMNA073)		✓						
Recall multiplication facts up to $10 \times 10$ and related division facts (ACMNA075)	✓	✓	✓					
Develop efficient mental and written strategies and use appropriate digital technologies for multiplication and for division where there is no remainder (ACMNA076)	✓	✓	✓					
<b>Fractions and decimals</b>								
Count by quarters halves and thirds, including with mixed numerals. Locate and represent these fractions on a number line (ACMNA078)							✓	
<b>Patterns and algebra</b>								
Explore and describe number patterns resulting from performing multiplication (ACMNA081)	✓		✓					
Solve word problems by using number sentences involving multiplication or division where there is no remainder (ACMNA082)	✓		✓				✓	
Use equivalent number sentences involving addition and subtraction to find unknown quantities (ACMNA083)	✓		✓			✓	✓	
<b>MEASUREMENT AND GEOMETRY</b>								
<b>Using units of measurement</b>								
Use am and pm notation and solve simple time problems (ACMMG086)					✓			
<b>Location and transformation</b>								
Use simple scales, legends and directions to interpret information contained in basic maps (ACMMG090)				✓		✓		

© Australian Curriculum, Assessment and Reporting Authority 2010.

Strands, Sub-Strands and Content Descriptions. This is an extract from the Australian Curriculum and is current as at 13 July 2011. Elaborations: This is a modified extract from the Australian Curriculum and includes the work of the author.

ACARA neither endorses nor verifies the accuracy of the information provided and accepts no responsibility for incomplete or inaccurate information. In particular, ACARA does not endorse or verify that:

- The content descriptions are solely for Years 1 to 6;
- That all the content descriptions for Years 1 to 6 have been used; and
- That the modified elaborations in this publication align with the Australian Curriculum Content Descriptions for Years 1 to 6.

You can find the unaltered and most up to date version of this material at <http://www.australiancurriculum.edu.au/Home>

This material is reproduced with the permission of ACARA.

# Australian Mathematics Curriculum correlations continued

Mathematics Year 4 <small>continued</small>	Bicycle lock	Cheating husband	Code breakers	Lost dog	Graffiti artist	Border patrol	Jelly beans	Cat burglar
<b>STATISTICS AND PROBABILITY</b>								
<b>Data representation and interpretation</b>								
Construct suitable data displays, with and without the use of digital technologies, from given or collected data. Include tables, column graphs and picture graphs where one picture can represent many data values (ACMSP096)							✓	✓

Mathematics Year 5								
<b>NUMBER AND ALGEBRA</b>								
<b>Number and place value</b>								
Use estimation and rounding to check the reasonableness of answers to calculations (ACMNA099)		✓						
Solve problems involving multiplication of large numbers by one- or two-digit numbers using efficient mental, written strategies and appropriate digital technologies (ACMNA100)	✓		✓					
Solve problems involving division by a one digit number, including those that result in a remainder (ACMNA101)			✓			✓		
Use efficient mental and written strategies and apply appropriate digital technologies to solve problems (ACMNA291)	✓	✓	✓			✓		
<b>Fractions and decimals</b>								
Investigate strategies to solve problems involving addition and subtraction of fractions with the same denominator (ACMNA103)							✓	
<b>Patterns and algebra</b>								
Describe, continue and create patterns with fractions, decimals and whole numbers resulting from addition and subtraction (ACMNA107)	✓							
<b>MEASUREMENT AND GEOMETRY</b>								
<b>Using units of measurement</b>								
Compare 12- and 24-hour time systems and convert between them (ACMMG110)					✓			
<b>Location and transformation</b>								
Use a grid reference system to describe locations. Describe routes using landmarks and directional language (ACMMG113)				✓				
Describe translations, reflections and rotations of two-dimensional shapes. Identify line and rotational symmetries (ACMMG114)						✓		

# Australian Mathematics Curriculum correlations continued

Mathematics Year 5 <small>continued</small>	Bicycle lock	Cheating husband	Code breakers	Lost dog	Graffiti artist	Border patrol	Jelly beans	Cat burglar
<b>STATISTICS AND PROBABILITY</b>								
<b>Data representation and interpretation</b>								
Construct displays, including column graphs, dot plots and tables, appropriate for data type, with and without the use of digital technologies (ACMSP119)							✓	✓
Describe and interpret different data sets in context (ACMSP120)							✓	✓

© Australian Curriculum, Assessment and Reporting Authority 2010.

Strands, Sub-Strands and Content Descriptions. This is an extract from the Australian Curriculum and is current as at 13 July 2011. Elaborations: This is a modified extract from the Australian Curriculum and includes the work of the author.

ACARA neither endorses nor verifies the accuracy of the information provided and accepts no responsibility for incomplete or inaccurate information. In particular, ACARA does not endorse or verify that:

- The content descriptions are solely for Years 1 to 6;
- That all the content descriptions for Years 1 to 6 have been used; and
- That the modified elaborations in this publication align with the Australian Curriculum Content Descriptions for Years 1 to 6.

You can find the unaltered and most up to date version of this material at <http://www.australiancurriculum.edu.au/Home>

This material is reproduced with the permission of ACARA.