



Foundation

	Activity Number	Curriculum Links
Chapter 1) Counting	1) Forwards 1 to 10: Building Steps	 Foundation Number Name, represent and order numbers including zero to at least 20, using physical and virtual materials and
	1) Forwards 10 to 20: Building Steps (a little harder)	physical and virtual materials and numerals (AC9MFN01).Recognise and name the number of
	2) Number After: Greater Number	 objects within a collection up to 5 using subitising (AC9MFN02). Quantify and compare collections to at
	2) Number After: Greater Number (a little harder)	 least 20 using counting and explain or demonstrate reasoning (AC9MFN03). Partition and combine collections up to
	3) Backwards 10 to 1: Building Steps	10 using part-part-whole relationships and subitising to recognise and name the parts (AC9MFN04) .
	3) Backwards 20 to 10: Building Steps (a little harder)	 Foundation Algebra Recognise, copy and continue repeating patterns represented in different ways (AC9MFA01).
	4) Number Before: Lesser Number	
	4) Number Before: Lesser Number (a little harder)	
	5) Identifying Numbers 1 to 5: Building Steps (a little easier)	
	5) Identifying Numbers 6 to 10: Building Steps	

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Year 1

	Activity Number	Curriculum Links
	6) Bonds: Building a Wall	Foundation NumberRepresent practical situations involving
Chapter 2) Bonds of 5	7) Fluency: Filling a Wall	addition, subtraction and quantification with physical and virtual materials and use counting or subitising strategies (AC9MFN05). Year One Number • Partition one- and two-digit numbers in
	8) Fluency: Tic-Tac-Toe	
	9) Fluency: Racing Cars	
	10) Addition: Building a Wall	different ways using physical and virtual materials, including partitioning two-digit numbers into tens and ones (AC9M1N02) .
	11) Subtraction: Building a Wall	 Add and subtract numbers within 20, using physical and virtual materials, part-part-
	12) Equation: Building <i>(a little easier)</i>	whole knowledge to 10 and a variety of calculation strategies (AC9M1N04) .
	12) Equation: Building	 Use mathematical modelling to solve practical problems involving additive
	13) Missing Number Equations: Fill a Row (a little easier)	situations, including simple money transactions; represent the situations with
	13) Missing Number Equations: Three In a Row	diagrams, physical and virtual materials, and use calculation strategies to solve the problem (AC9M1N05) .
	13) Missing Number Equations: Tic-Tac-Toe (a little harder)	Year One Algebra
	14) Representing Addition: Thinkboard	 Recognise, continue and create repeating patterns with numbers, symbols, shapes and objects, identifying the repeating unit
	14) Representing Subtraction: Thinkboard	(АС9М1А02).
	15) Word Problems: Whole to 5	

TIER ONE IMPLEMENTATION

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	Activity Number	Curriculum Links
to 10	16.1 / 16.2) Bonds: Building a Wall	 Year One Number Partition one- and two-digit numbers in different ways using physical and virtual materials, including partitioning two-digit
	17) Fluency Doubles: Filling a Wall	 Add and subtract numbers within 20, using physical and virtual materials, part-part-
Doubling and Halving to 10	18) Fluency Halves: Filling a Wall	 whole knowledge to 10 and a variety of calculation strategies (AC9M1N04). Use mathematical modelling to solve
	19) Near Double: Strategy Concept	practical problems involving additive situations, including simple money transactions; represent the situations with diagrams, physical and virtual materials, and use calculation strategies to solve the
Chapter 3)	19) Near Double: Strategy Concept (a little harder)	 problem (AC9M1N05). Use mathematical modelling to solve practical problems involving equal sharing
	20) Near Double: Strategy Fluency	and grouping; represent the situations with diagrams, physical and virtual materials, and use calculation strategies to solve the problem (AC9MIN06) .
	Activity Number	Curriculum Links
	21.1 / 21.2) Bonds: Building a Wall	 Year One Number Partition one- and two-digit numbers in different ways using physical and virtual materials, including partitioning two-digit
sonds	22) Bonds: Multiple Representations	 numbers into tens and ones (AC9M1N02). Add and subtract numbers within 20, using physical and virtual materials, part-part-whole knowledge to 10 and a variety of
r 4) Five Plus Bonds		calculation strategies (AC9M1N04).
	23) Fluency: Tic-Tac-Toe	 Use mathematical modelling to solve practical problems involving additive situations, including simple money
Chapter 4) Five Plu	 23) Fluency: Tic-Tac-Toe 24) Addition: Building a Wall 	practical problems involving additive

Year 1

	Activity Number	Curriculum Links
Chapter 5) Bonds of 10	26.1 / 26.2) Bonds: Building a Wall	 Year One Number Partition one- and two-digit numbers in
	27) Fluency: Filling a Wall	different ways using physical and virtual materials, including partitioning two-digit
	28) Fluency: Tic-Tac-Toe	numbers into tens and ones (AC9M1N02).
	29) Addition: Building a Wall	 Add and subtract numbers within 20, using physical and virtual materials, part-part- whole knowledge to 10 and a variety of
	30) Subtraction: Building a Wall	calculation strategies (AC9M1N04).
	31) Equation: Building	 Use mathematical modelling to solve practical problems involving additive situations, including simple money
	31) Equation: Building (a little easier)	transactions; represent the situations with diagrams, physical and virtual materials,
	32) Missing Number Equations: Fill a Row	and use calculation strategies to solve the problem (AC9M1N05) .
	32) Missing Number Equations: Tic-Tac-Toe (a little harder)	Year One Algebra
	33) Representing Addition: Thinkboard	 Recognise, continue and create repeating patterns with numbers, symbols, shapes and objects, identifying the repeating unit
	33) Representing Subtraction: Thinkboard	(АС9М1А02).

TIER ONE IMPLEMENTATION

Year 2

Ten Plus Bonds

Chapter 7)

Activity Number

41) Bonds: Three In a Row

42) Bonds: Multiple Representations

43) Bonds: Place Value Partitioning

44) Addition and Subtraction: Ten and One

45) Addition: Building With Three Parts

46.1 / 46.2) Equation: Building

47) Addition: Building a Wall

48.1 / 48.2) Subtraction: Tic-Tac-Toe

49) Missing Number Equations: Tic-Tac-Toe

49) Missing Number Equations: Tic-Tac-Toe (a little harder)

Curriculum Links

Year One Number

Partition one- and two-digit numbers in different ways using physical and virtual materials, including partitioning two-digit numbers into tens and ones **(AC9M1N02)**.

Year Two Number

- Add and subtract one- and two-digit numbers, representing problems using number sentences and solve using part-part-whole reasoning and a variety of calculation strategies (AC9M2N04).
- Use mathematical modelling to solve practical problems involving additive and multiplicative situations, including money transactions; represent situations and choose calculation strategies; interpret and communicate solutions in terms of the situation (AC9M2N06).

Year Two Algebra

- Recognise, describe and create additive patterns that increase or decrease by a constant amount, using numbers, shapes and objects, and identify missing elements in the pattern (AC9M2A01).
- Recall and demonstrate proficiency with addition facts to 20; extend and apply facts to develop related subtraction facts (AC9M2A02).

Australian Curriculum Links (Version 9)

TIER ONE

Year 2

Chapter 6) Bonds of 6, 7, 8, 9

Activity Number

- 34) Bonds of 6 or 7 Bonds: Building a Wall
- 34) Bonds of 8 or 9 Bonds: Building a Wall
- 35.1 / 35.2) Subtraction: Building a Wall

36) Fluency: Shake and Spill

- 37) Fluency: Racing Monster Trucks
- 38) Bonds of 6 or 7 Equation: Building
- 38) Bonds of 8 or 9 Equation: Building

39) Bonds of 6 - Missing Number Equations: Tic-Tac-Toe

39) Bonds of 7 - Missing Number Equations: Tic-Tac-Toe

39) Bonds of 8 - Missing Number Equations: Tic-Tac-Toe

39) Bonds of 9 - Missing Number Equations: Tic-Tac-Toe

40) Word Problems: Wholes to 10

Curriculum Links

Year Two Number

- Add and subtract one- and two-digit numbers, representing problems using number sentences and solve using partpart-whole reasoning and a variety of calculation strategies (AC9M2N04).
- Use mathematical modelling to solve practical problems involving additive and multiplicative situations, including money transactions; represent situations and choose calculation strategies; interpret and communicate solutions in terms of the situation (AC9M2N06).

Year Two Algebra

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- Recognise, describe and create additive patterns that increase or decrease by a constant amount, using numbers, shapes and objects, and identify missing elements in the pattern (AC9M2A01).
- Recall and demonstrate proficiency with addition facts to 20; extend and apply facts to develop related subtraction facts (AC9M2A02).

TIER ONE IMPLEMENTATION

Year 2

	Activity Number	Curriculum Links
Chapter 8) Doubling and Halving to 20	57.1 / 57.2) Bonds: Building a Wall	 Year Two Number Add and subtract one- and two-digit numbers, representing problems using
	58) Fluency Doubles: Filling a Wall	number sentences and solve using part- part-whole reasoning and a variety of calculation strategies (AC9M2N04) .
	59) Fluency Halves: Filling a Wall	 Use mathematical modelling to solve practical problems involving additive and multiplicative situations, including money
	60) Fluency Doubles: Racing Kayaks	transactions; represent situations and choose calculation strategies; interpret and communicate solutions in terms of the
	61) Fluency Halves: Racing Snowboards	 situation (AC9M2N06). Recognise and describe one-half as one of
	62) Near Double: Strategy Concept	2 equal parts of a whole and connect halves, quarters and eighths through repeated halving (AC9M2N03) .
	62) Near Double: Strategy Concept (a little harder)	 Year Two Algebra Recall and demonstrate proficiency with addition facts to 20; extend and apply
	63) Near Double: Strategy Fluency	facts to develop related subtraction facts (AC9M2A02).

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Year 2 and 3

Activity Number

Plus Bonds

Chapter 7) Ten

- 50) Bridging Ten Addition: Strategy 9+
- 50) Bridging Ten Addition: Strategy 19+ (a little harder)
- 51) Bridging Ten Addition: Strategy 8+
- 51) Bridging Ten Addition: Strategy 18+ (a little harder)
- 52) Bridging Ten Addition: Strategy 7, 8, 9+
- 52) Bridging Ten Addition: Strategy Teen+ (a little harder)
- 53) Bridging Ten Subtraction: Strategy Taking Away
- 53) Bridging Ten Subtraction: Strategy Taking Away (a little harder)
- 54) Bridging Ten Subtraction: Strategy Adding On
- 54) Bridging Ten Subtraction: Strategy Adding On (a little harder)
- 55) Partitioning Addition: Strategy Five Plus Bonds
- **55) Partitioning Addition:** Strategy Five Plus Bonds (a *little harder*)
- 56) Partitioning Subtraction: Strategy Five Plus Bonds
- **56) Partitioning Subtraction:** Strategy Five Plus Bonds (*a little harder*)

Curriculum Links

Year Two Number

- Add and subtract one- and two-digit numbers, representing problems using number sentences and solve using part-part-whole reasoning and a variety of calculation strategies (AC9M2N04).
- Use mathematical modelling to solve practical problems involving additive and multiplicative situations, including money transactions; represent situations and choose calculation strategies; interpret and communicate solutions in terms of the situation (AC9M2N06).

Year Two Algebra

- Recognise, describe and create additive patterns that increase or decrease by a constant amount, using numbers, shapes and objects, and identify missing elements in the pattern (AC9M2A01).
- Recall and demonstrate proficiency with addition facts to 20; extend and apply facts to develop related subtraction facts (AC9M2A02).

Year Three Number

- Add and subtract two- and three-digit numbers using place value to partition, rearrange and regroup numbers to assist in calculations without a calculator (AC9M3N03).
- Use mathematical modelling to solve practical problems involving additive and multiplicative situations including financial contexts; formulate problems using number sentences and choose calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation (AC9M3N06).

Year Three Algebra

- Recognise and explain the connection between addition and subtraction as inverse operations, apply to partition numbers and find unknown values in number sentences (AC9M3A01).
- Extend and apply knowledge of addition and subtraction facts to 20 to develop efficient mental strategies for computation with larger numbers without a calculator (AC9M3A02).



Year 3

	Activity Number	Curriculum Links
Chapter 9) Bonds of 11 to 20	64) Addition: Lulu	 Year Two Number Add and subtract one- and two-digit numbers, representing problems using number sentences and
	65) Subtraction: Difference	 solve using part-part-whole reasoning and a variety of calculation strategies (AC9M2N04). Use mathematical modelling to solve practical problems
	66) Equation: Building	involving additive and multiplicative situations, including money transactions; represent situations and choose calculation strategies; interpret and communicate solutions in terms of the situation (AC9M2N06) .
	67) Missing Number Equations: Racing Motorcycles	 Year Two Algebra Recognise, describe and create additive patterns that increase or decrease by a constant amount, using numbers, shapes and objects, and identify missing
	68) Word Problems: Wholes to 20	 Recall and demonstrate proficiency with addition facts to 20; extend and apply facts to develop related subtraction
	69) Near Ten: Strategy +9	facts (AC9M2A02). Year Three Number • Add and subtract two- and three-digit numbers using
	69) Near Ten: Strategy +9 (a little harder)	 Place value to partition, rearrange and regroup numbers to assist in calculations without a calculator (AC9M3N03). Use mathematical modelling to solve practical problems
	70) Near Ten: Strategy -11	involving additive and multiplicative situations including financial contexts; formulate problems using number sentences and choose calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation (AC9M3N06) .
	70) Near Ten: Strategy -11 (a little harder)	 Year Three Algebra Recognise and explain the connection between addition
	71) Near Ten: Strategy -9	and subtraction as inverse operations, apply to partition numbers and find unknown values in number sentences (AC9M3A01).
	71) Near Ten: Strategy -9 (a little harder)	 Extend and apply knowledge of addition and subtraction facts to 20 to develop efficient mental strategies for computation with larger numbers without a calculator (AC9M3A02).





Bond Blocks Addition and Subtraction to 20 covers the highlighted sections of the Australian Curriculum. v9.australiancurriculum.edu.au

Foundation Year Content Descriptions Number and Algebra

Number

- Name, represent and order numbers including zero to at least 20, using physical and virtual materials and numerals (AC9MFN01).
- Recognise and name the number of objects within a collection up to 5 using subitising (AC9MFN02).
- Quantify and compare collections to at least 20 using counting and explain or demonstrate reasoning (AC9MFN03).
- Partition and combine collections up to 10 using part-part-whole relationships and subitising to recognise and name the parts (AC9MFN04).
- Represent practical situations involving addition, subtraction and quantification with physical and virtual materials and use counting or subitising strategies (AC9MFN05).
- Represent practical situations involving equal sharing and grouping with physical and virtual materials and use counting or subitising strategies (AC9MFN06).

Algebra

• Recognise, copy and continue repeating patterns represented in different ways (AC9MFA01).

Year 1 Content Descriptions Number and Algebra

Number

- Recognise, represent and order numbers to at least 120 using physical and virtual materials, numerals, number lines and charts (AC9M1N01).
- Partition one- and two-digit numbers in different ways using physical and virtual materials, including partitioning two-digit numbers into tens and ones (AC9M1N02).
- Quantify sets of objects, to at least 120, by partitioning collections into equal groups using number knowledge and skip counting (AC9M1N03).
- Add and subtract numbers within 20, using physical and virtual materials, part-part-whole knowledge to 10 and a variety of calculation strategies (AC9M1N04).
- Use mathematical modelling to solve practical problems involving additive situations, including simple money transactions; represent the situations with diagrams, physical and virtual materials, and use calculation strategies to solve the problem (AC9MIN05).
- Use mathematical modelling to solve practical problems involving equal sharing and grouping; represent the situations with diagrams, physical and virtual materials, and use calculation strategies to solve the problem (AC9M1N06).

Algebra

- Recognise, continue and create pattern sequences, with numbers, symbols, shapes and objects, formed by skip counting, initially by twos, fives and tens (AC9M1A01).
- Recognise, continue and create repeating patterns with numbers, symbols, shapes and objects, identifying the repeating unit (AC9M1A02).

Year 2 Content Descriptions Number and Algebra

Number

- Recognise, represent and order numbers to at least 1000 using physical and virtual materials, numerals and number lines (AC9M2N01).
- Partition, rearrange, regroup and rename two- and three-digit numbers using standard and non-standard groupings; recognise the role of a zero digit in place value notation (AC9M2N02).
- Recognise and describe one-half as one of 2 equal parts of a whole and connect halves, quarters and eighths through repeated halving (AC9M2N03).
- Add and subtract one- and two-digit numbers, representing problems using number sentences and solve using part-partwhole reasoning and a variety of calculation strategies (AC9M2N04).
- Multiply and divide by one-digit numbers using repeated addition, equal grouping, arrays, and partitioning to support a variety of calculation strategies (AC9M2N05).
- Use mathematical modelling to solve practical problems involving additive and multiplicative situations, including money transactions; represent situations and choose calculation strategies; interpret and communicate solutions in terms of the situation (AC9M2N06).

Algebra

- Recognise, describe and create additive patterns that increase or decrease by a constant amount, using numbers, shapes and objects, and identify missing elements in the pattern (AC9M2A01).
- Recall and demonstrate proficiency with addition facts to 20; extend and apply facts to develop related subtraction facts (AC9M2A02).
- Recall and demonstrate proficiency with multiplication facts for twos; extend and apply facts to develop the related division facts using doubling and halving (AC9M2A03).

Year 3 Content Descriptions Number and Algebra

Number

- Recognise, represent and order natural numbers using naming and writing conventions for numerals beyond 10000 (AC9M3N01).
- Recognise and represent unit fractions including 1/2, 1/3, 1/4, 1/5 and 1/10 and their multiples in different ways; combine fractions with the same denominator to complete the whole (AC9M3N02).
- Add and subtract two- and three-digit numbers using place value to partition, rearrange and regroup numbers to assist in calculations without a calculator (AC9M3N03).
- Multiply and divide one- and two-digit numbers, representing problems using number sentences, diagrams and arrays, and using a variety of calculation strategies (AC9M3N04).
- Estimate the quantity of objects in collections and make estimates when solving problems to determine the reasonableness of calculations (AC9M3N05).
- Use mathematical modelling to solve practical problems involving additive and multiplicative situations including financial contexts; formulate problems using number sentences and choose calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation (AC9M3N06).
- Follow and create algorithms involving a sequence of steps and decisions to investigate numbers; describe any emerging patterns (AC9M3N07).

Algebra

- Recognise and explain the connection between addition and subtraction as inverse operations, apply to partition numbers and find unknown values in number sentences (AC9M3A01).
- Extend and apply knowledge of addition and subtraction facts to 20 to develop efficient mental strategies for computation with larger numbers without a calculator (AC9M3A02).
- Recall and demonstrate proficiency with multiplication facts for 3, 4, 5 and 10; extend and apply facts to develop the related division facts (AC9M3A03).