

Bond Blocks Support Book:

Assessment

- Using the Bond Blocks Test
- Entering Results
- Analysing the Test Results
- Identifying the Teaching Focus
- Monitoring Progress

- Retesting
- Bond Blocks Test - Recording Sheet
- Bond Blocks Test - Viewing Sheet
- Bond Blocks Test - Student Reflection and Goal Setting

Using the Bond Blocks Test

The teacher will need:

- 1. A pen to record student responses.
- 2. One copy of the Bond Blocks Test - Recording sheet. Download and print this. Place this in front of the teacher.

Students view the questions using either:

- 1. The Bond Blocks Test PowerPoint.
- 2. The Bond Blocks Test - Viewing sheet. The written questions are identical in both versions; however the language used to say the subtraction equations are different:

 - In the version titled "Bond Blocks Test - Using Subtract and Count" the subtraction questions are read using the words "take away" and "left".
 - In the version titled "Bond Blocks Test - Using Take Away and In" the subtraction questions are read using the words "take away" and "in". For example: "Take away three 4s".

Use the version that the teacher is most familiar with.

3. Bond Blocks Test Viewing sheet.

Print one copy of this and place this in front of the student.

Note: This needs to be printed separately from the Test Recording Sheet, **not double-sided**. Place one piece of blue paper on top of the student's viewing sheet, under the test currently being read to the student.

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Entering Results

Enter results in the Bond Blocks Test - Results and Tracking Test document.

Excel Tip:
Save and close one copy of the per year level .xlsx file > Save As. This will help administration monitor year level cohorts. Class teachers can open this by clicking on Column D "Class". To access their student list, the test is repeated **anonymously**. Record the results for each student.

Test Types:

- **Pre-Test**
- **Post Test 1**
- **Post Test 2**
- **Post Test 3**

These are two versions:

- A version based on Australian Curriculum Version 9. This aligns to the curriculum in each state, except WA.
- A different version for WA based on the 2020 Western Australian Curriculum.

The progress points between these will be automatically calculated.

Each row needs to be **sorted** in order to highlight rows and sort. Home > Cells > Format > Unsorted sheet. This will need to be done for each test.

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Assessment

Entering Results

Excel Tip:
Save and close one copy of the per year level .xlsx file > Save As. This will help administration monitor year level cohorts. Class teachers can open this by clicking on Column D "Class". To access their student list, the test is repeated **anonymously**. Record the results for each student.

Test Types:

- **Pre-Test**
- **Post Test 1**
- **Post Test 2**
- **Post Test 3**

These are two sheets:

To modify, add or sort cells in the Excel, unprotect the sheet. Home > Cells > Format > Unprotected sheet.

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Analysing the Test Results

The level spreadsheet of test results can be analysed at two levels:

1. Student Level
2. Cohort Level

Student Level:
Reading the horizontal rows provides student-level information. This data can be used to identify students who need intervention and extension. It can also be used to form groups of students working on a similar level for both intervention and extension. The student level spreadsheet for the test results provides progress data.

Interpreting Progress Tier One Teaching

Calculating Progress Points:
Each question on the Test Level Spreadsheet is allocated to the relevant year level curriculum and is worth a maximum of 1 point. By adding the student responses for each question, the total number of points that the student has to that test will be calculated.

Interpreting Progress:
To interpret how much progress a student has made compare:

- the number of progress points the student made to:
- the total number of test points related to the student's test level.

For example, if a student made 5 points of progress and the maximum number of points on the test for the specified year level was 10, this would equate to approximately one third of curriculum as represented by the test.

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Assessment

Analysing the Test Results

Interpreting Progress: Intervention

Interpreting progress: address the following in students' complete:

- the number of progress points the student made between annual tests to:
- the total number of test points related to the Bond Block chapters they covered.

For example, if a student had covered Chapters 6 and 7, these chapters have 7 test questions which is a maximum of 7 points. If a student's test score should be interpreted in light of 14 points.

- a score of 7 points for the two chapters covered should be considered as excellent progress because the number of missing number questions in these chapters.

Student progress needs to be interpreted considering the neurological profile.

Please refer to the Tier Two and Three Intervention Support Book pages 15 to 19 that outlines how intervention is conducted:

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Assessment

Analysing the Test Results

Case Study:
The following data was collected from a West Australian school. These Year 1 students participated in Bond Blocks intervention only. They had been using Bond Blocks for 4 weeks.

The total number of test points covered by these four test questions is 8 points. Each student's progress points is compared to 8.

Student	Pre-Test March 2020	Post Test 1 November 2020	Progress Points
Student 1	2	4	2
Student 2	2	4	2
Student 3	2	7	5
Student 4	2	10	8
Student 5	0	6	6
Student 6	2	11	9
Student 7	2	14	12

Another frequent example identified by schools when analysing cohort data is a difference in results between short-term and related learning. Schools can find students are fluent in doubling (for example, questions 11 and 12) but not halving (for example, question 6 and 7).

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Assessment

Analysing the Test Results

Once these content areas are identified use the **Mathematical Concepts Covered by Each Bond Block Activity** table to find the activity numbers related to those topics. Complete these activities with the cohort.

Bond Block Intervention Data:

Activity Chapter	Bonds	Fluency	Addition	Subtraction	Multiplication	Division	Missing Number	Word Problems	Elapsed Time
Counting and Number 1-10	16	15, 16							16, 20
Counting and Number 11-20	20	21, 20	20	30	31	32	33		
Counting and Number 21-30	34	36, 37	36	38	39	40	41		
Counting and Number 31-40	45, 46, 47	44, 45, 47	48 (Ext A)	48	48 (Ext A)	49	50, 51, 52	52, 53, 54	43, 44
Counting and Number 41-50	57	58, 59, 60, 61							63, 64
Teacher Notes									

The table is particularly helpful when using Bond Blocks at whole school level. Schools new to Bond Blocks often test the whole cohort of students, for example Year 4 students. Doing so helps to identify (1) those who need intervention and (2) cohort gaps in learning/learning.

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Monitoring Progress

For teachers who prefer to use physical recording methods, progress can be monitored and observations recorded using the Recording Sheets. There are three levels of recording sheets:

1. Monitoring sheet for an individual student (**Tier 3 Intervention Only**)
2. Monitoring sheet for a small group (**Tier 2 Intervention Only**)
3. Monitoring sheet for a Class (**Tier 1 Whole Class Teaching**)

This is used for tier three intervention and can be attached to students' individual education plans.

Monitoring Sheet:

Individual Student

Four Student

Whole Class

These recording sheets can be downloaded from the Assessment and Monitoring section of the website. They are available in paper (PDF) and electronic (Excel) versions.

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& Dr Paul Swan

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Bond Blocks Support Book - Answers

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Organisation

The teacher will need:

- i. A pen to record student responses.
- ii. One copy of the '**Bond Blocks Test - Recording Sheet**'. Download and print this. Place this in front of the teacher.

Students view the questions using either:

i. The Bond Blocks Test Powerpoint

There are two versions of the Bond Blocks Test PowerPoint. The written questions are identical in both versions however the language used to say the subtraction equations are different:

- In the version titled “Bond Blocks Test – Using Subtract and Equals” the subtraction questions are read using the words “subtract” and “equals”. For example, **“Five subtract three equals?”**
- In the version titled “Bond Blocks Test – Using Take Away and Is” the subtraction questions are read using the words “take away” and “is”. For example, **“Five take away three is?”**

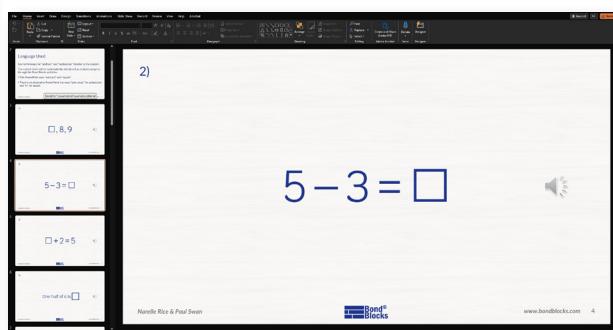
Use the version that has the language the students you are testing are most familiar with.

ii. The Bond Blocks Test – Student Viewing Sheet

Print one copy of this and place this in front of the student

Note: This needs to be printed separately from the Test Recording Sheet, **not double-sided**. Place one piece of blank paper on top of the Student Viewing Sheet, under the item currently being read to the student.

Bond Blocks Test: Addition and Subtraction to 20				ASSESSMENT	
Bond Blocks Test - Recording Sheet		Student Name: _____			Date: _____
Class:	Pre-Test Date: _____	Complete During Test			Complete After Test
		Post Test 1 Date: _____	Post Test 1 Date: _____	Post Test 2 Date: _____	Teaching / Learning Focus
		<input checked="" type="checkbox"/> fluent C correct, not fluent X incorrect	<input checked="" type="checkbox"/> fluent C correct, not fluent X incorrect	<input checked="" type="checkbox"/> fluent C correct, not fluent X incorrect	Highlight if first fluent
1	8 + 9				Counting
2	5 - 3 = <input checked="" type="checkbox"/>				Bonds of 5
3	<input checked="" type="checkbox"/> 3 + 2 = 5				Bonds of 5
4	One half of 6 is <input checked="" type="checkbox"/>				Double 3, 2, 3, 4, 5 related halves
5	8 - 5 = <input checked="" type="checkbox"/>				Five Plus Bonds
6	<input checked="" type="checkbox"/> 1 + 10 = 10				Bonds of 10
7	10 - 7 = <input checked="" type="checkbox"/>				Bonds of 10
8	<input checked="" type="checkbox"/> 10 - 3 = 7				Bonds of 10
9	6 - 4 = <input checked="" type="checkbox"/>				Bonds of 6
10	7 - 5 = <input checked="" type="checkbox"/>				Bonds of 7
11	<input checked="" type="checkbox"/> 7 + 1 = 8				Bonds of 8
12	<input checked="" type="checkbox"/> 4 - 3 = 1				Bonds of 9
13	17 - 10 = <input checked="" type="checkbox"/>				Ten Plus Bonds
14	2 + <input checked="" type="checkbox"/> = 12				Ten Plus Bonds
15	<input checked="" type="checkbox"/> 10 + 10 = 20				Ten Plus Bonds
16	Double 7 is <input checked="" type="checkbox"/>				Double 6, 7, 8, 9 related halves
17	One half of 16 is <input checked="" type="checkbox"/>				Double 4, 5, 6, 7 related halves
18	Double 9 is <input checked="" type="checkbox"/>				Double 6, 7, 8, 9 related halves
19	13 - 8 = <input checked="" type="checkbox"/>				Bonds of 12 to 20
20	<input checked="" type="checkbox"/> 7 + 8 = 15				Bonds of 12 to 20



Bond Blocks Test Powerpoint

Recording Sheet

VIEWING SHEET		Bond Blocks Test: Addition and Subtraction to 20
Bond Blocks Test - Student Viewing Sheet		
Place this sheet in front of the student. Use a piece of blank paper to screen items not currently being read to the student.		
Read each fact item to the student. Use your finger to point to each number and symbol as it is said.		
Students respond verbally. Student responses are recorded by the teacher on the Recording Sheet.		
1)	<input type="text"/> 8 + 9	
2)	<input type="text"/> 5 - 3 = <input type="text"/>	
3)	<input type="text"/> $\square + 2 = 5$	
4)	One half of 6 is <input type="text"/>	
5)	<input type="text"/> 8 - 5 = <input type="text"/>	
6)	<input type="text"/> $\square + 4 = 10$	
7)	$10 - 7 = \square$	
8)	$10 - \square = 2$	
9)	$6 - 4 = \square$	
10)	$7 - 5 = \square$	
11)	<input type="text"/> $\square + 5 = 8$	
12)	<input type="text"/> $\square - 6 = 3$	
13)	$17 - 10 = \square$	
14)	$3 + \square = 13$	
15)	$\square - 6 = 0$	
16)	Double 7 is <input type="text"/>	
17)	One half of 16 is <input type="text"/>	
18)	Double 9 is <input type="text"/>	
19)	$13 - 8 = \square$	
20)	$\square - 7 = 8$	

Student Viewing Sheet

Administering the Test

Teacher Instructions

The test is administered to students one at a time.

- Sit next to the student being tested.
- Place the Recording Sheet and pen in front of yourself.
- Place the test questions in front of the student. This will be either a device showing the PowerPoint or the Student Viewing Sheet.
- Read the first test item to the student. Use your finger to point to each number and symbol as it is said aloud. Use terminology for 'addition' and 'subtraction' familiar to the student. The correct terms will be systematically introduced as students progress through the Bond Blocks activities.

Students respond verbally. Record the student's response on the Recording Sheet using one of these symbols:



Correct, fluent response
Less than 3 seconds.



Correct response but not fluent.
Strategies greater than 3
seconds. Includes counting.



Incorrect or no response.

The test becomes increasingly difficult.

Whole Class Teaching

When testing for **whole class teaching** STOP testing after three responses that are not correct, fluent responses.

For example, three **C** responses or two **C** responses and one **X**.

- Doing this will provide enough information to identify the starting point for groups of students and, in the future, monitor progress.
- This will take approximately 3 minutes per student. Allocate between 60 to 90 minutes to test a class.

Intervention Only

When testing students in **Year 1 and 2** for **intervention**, stop after three responses that are not correct, fluent responses.

These students do not complete the whole test because it contains curriculum that is beyond their year level.

When testing students from **Year 3 on** for **intervention**, administer the whole test to identify gaps in their learning.

- Testing students who might require intervention takes longer than testing at a tier one level.
Allow 10 to 15 minutes per student when testing students for intervention.
- If students are very young, have maths anxiety or attentional difficulties split the testing into two short sessions.

Entering Results

Enter results in the **Bond Blocks Test - Results and Tracking Tool Excel** document.

-  2 – Correct, fluent response.
-  1 – Correct response but not fluent. Includes counting.
-  0 – Incorrect or no response.

There are two versions:

- A version based on Australian Curriculum Version 9. This aligns to the curriculum in each state, except WA.
- A different version for WA based on the 2026 Western Australian Curriculum.



A screenshot of the 'Bond Blocks Test - Results and Tracking Tool (ACV9)' Excel spreadsheet. The spreadsheet is organized into columns for student information (Surname, First Name, Class, Date) and rows for questions (Q1 to Q20). The first few rows show the 'Pre-Test' results. The background features a map of Australia with the text 'Australian Curriculum Version 9' overlaid. The top of the spreadsheet includes the Bond Blocks logo and assessment details.

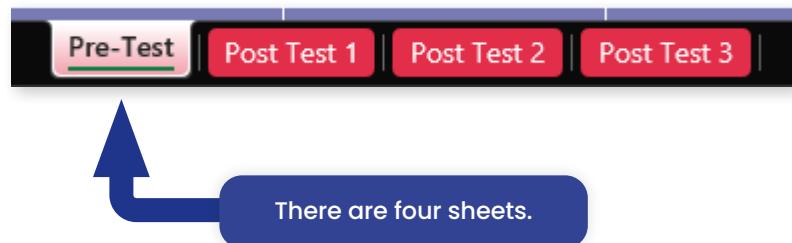


A screenshot of the 'Bond Blocks Assessment - Results and Tracking Tool (WA2026)' Excel spreadsheet. The structure is identical to the ACV9 version, with columns for student info and rows for questions Q1-Q20. The background features a map of Western Australia with the text 'WA 2026' overlaid. The top of the spreadsheet includes the Bond Blocks logo and assessment details.

Excel Tips

Download and save one copy of the file per Year Level. File > Save As. This will help administration monitor year level cohorts. Class teachers can sort data by Column D "Class" to access their student list.

The test is repeated **annually**. Record the results for each test on a **new sheet**.



The progress points between sheets will be automatically calculated.

Each Excel sheet needs to be '**unprotected**' in order to highlight rows and sort. **Home > Cells > Format > Unprotect Sheet**. This will need to be done for each sheet.

Curriculum Version 9

Bond Blocks Test: Addition and Subtraction to 20 Pre-Test

Key: Place a 0, 1 or 2 in the cell to indicate the following.

Blank = not tested. 0 = incorrect or no response.
1 = Correct response but not fluent. Includes counting.
2 = Correct, fluent response.

To unlock the sheet go to the "Home" tab, the "cells" subsection, "format" and select "unprotect sheet".

#	Surname	First Name	Class	Date	Q1	x/2	Q2	Q3	Q4	Q5	Q6	Q7	Q8	x/14	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Total	Year 3	Total	Student Total
1				dd/mm/yy	0										0									0	0	0	
2				dd/mm/yy	0										0									0	0	0	
3				dd/mm/yy	0										0									0	0	0	
4				dd/mm/yy	0										0									0	0	0	
5				dd/mm/yy	0										0									0	0	0	
6				dd/mm/yy	0										0									0	0	0	
7				dd/mm/yy	0										0									0	0	0	
8				dd/mm/yy	0										0									0	0	0	
9				dd/mm/yy	0										0									0	0	0	
10				dd/mm/yy	0										0									0	0	0	
11				dd/mm/yy	0										0									0	0	0	
12				dd/mm/yy	0										0									0	0	0	
13				dd/mm/yy	0										0									0	0	0	
14				dd/mm/yy	0										0									0	0	0	
15				dd/mm/yy	0										0									0	0	0	
16				dd/mm/yy	0										0									0	0	0	
17				dd/mm/yy	0										0									0	0	0	
18				dd/mm/yy	0										0									0	0	0	

To modify, edit or sort cells in the Excel, unprotect the sheet.
Home > Cells > Format > Unprotect Sheet.

The Excel spreadsheet of test results can be analysed at two levels:

1. Student Level
2. Cohort Level

Student Level

Reading the horizontal rows provides student-level information. This data can be used to identify students who need intervention and extension. It can also be used to form groups of students working at a similar level for both intervention and tier one class teaching. Repeating the test annually provides progress data.

Interpreting Progress: Tier One Teaching

Calculating Progress Points:

Each question on the Test Excel Spreadsheet is allocated to the relevant year level curriculum and is worth a maximum of two points. After entering the student responses to each question, the total the number of points that relate to that year will be calculated.

Interpreting Progress

To interpret how much progress a student has made compare:

- the number of progress points the student made to
- the total number of test points related to the curriculum for that year level.

For example, if a student made 8 points of progress and the maximum number of points on the test for the specified year level was 8, this would equate to approximately one year of curriculum as represented by the test.

Curriculum Version 9		Foundation	Total	Year 1					Total	Year 2					Total	Year 3		Total	Student Total			
	Bond Blocks Test: Addition and Subtraction to 20 Pre-Test			1) Counting Activity						6) Bonds of 6, 7, 8 & 9						9) Bonds of 11 to 20						
				<input type="checkbox"/> 6, 9						<input type="checkbox"/> Bonds of 6	<input type="checkbox"/> Bonds of 6	<input type="checkbox"/> Double and Half to 10	<input type="checkbox"/> Five Plus Bonds	<input type="checkbox"/> Bonds of 10		<input type="checkbox"/> Bonds of 11 to 20						
					<input type="checkbox"/> 5 - 3 =	<input type="checkbox"/> 5 + 2 = 5	<input type="checkbox"/> One half of 6	<input type="checkbox"/> 8 - 5 =	<input type="checkbox"/> 10 + 4 = 10	<input type="checkbox"/> 10 - 7 =	<input type="checkbox"/> 10 - □ = 2					<input type="checkbox"/> Double 7	<input type="checkbox"/> Double 8					
					<input type="checkbox"/> Q2	<input type="checkbox"/> Q3	<input type="checkbox"/> Q4	<input type="checkbox"/> Q5	<input type="checkbox"/> Q6	<input type="checkbox"/> Q7	<input type="checkbox"/> Q8	x/14				<input type="checkbox"/> Q9	<input type="checkbox"/> Q10	<input type="checkbox"/> Q11	<input type="checkbox"/> Q12			
#	Surname	First Name	Class	Date	Q1	x/2										Q13	Q14	Q15	Q16	Q17	Q18	x/20
																Q19	Q20		x/4	x/40		

Student Level

Interpreting Progress: Intervention

When interpreting progress for intervention students compare:

- the number of progress points the student made between annual tests to
- the total number of test points related to the Bond Block chapters they have covered.

For example, if a student had covered Chapters 6 and 7, these chapters have 7 test questions which is a maximum of 14 points. The student's test score should be interpreted in light of 14 points.

- A score of 12 for a tier two student would be considered excellent.
- A score of 7 points for a tier three student could also be considered as excellent progress because of the number of 'missing number' questions in these chapters.

Student progress needs to be interpreted considering their neurological profile.

Please refer to the Tier Two and Three Implementation Support Book pages 15 to 19 that outlines how intervention is differentiated.

Western Australian Curriculum 2026					Year 1				Total	
Bond® Blocks ASSESSMENT Bond Blocks Test: Addition and Subtraction to 20 Pre-Test Key: Place a 0, 1 or 2 in the cell to indicate the following. Blank = not tested. 0 = incorrect or no response. 1 = Correct response but not fluent. Includes counting. 2 = Correct, fluent response. To unlock the sheet go to the "Home" tab, the "cells" subsection, "format" and select "unprotect sheet".					2) Bonds of 5 $5 - 3 =$ $\square + 2 = 5$ One half of 6 $8 - 5 =$ $\times/8$					
#	Surname	First Name	Class	Date	Q2	Q3	Q4	Q5	x/8	
1				dd/mm/yy					0	

Case Study

The following data was collected from a West Australian school. These **Year 1** students participated in Bond Blocks as intervention only. They completed Chapters 2, 3 and 4.

The total number of test points covered by these four test questions, is 8 points. Each students' progress points is compared to 8.

Student	Pre-Test March 2021	Post Test 1 November 2021	Progress Points
Student 1	2	4	2
Student 2	2	4	2
Student 3	2	7	5
Student 4	2	10	8
Student 5	0	8	8
Student 6	2	11	9
Student 7	2	14	12

Concerning lack of progress.

Accounted for, reduced progress.

Excellent progress

Compared to the eight points of curriculum covered by the test:

- Students 4, 5, 6 and 7 (**green**) made excellent progress of eight points or more. Two of these students applied knowledge from the chapters covered to correctly answer questions from later chapters earning more progress points than the eight covered by the four test questions related to the chapters of activities completed.
- Student 3 (**yellow**) made less progress in comparison, but this was still pleasing. This student has a diagnosis that accounts for this.
- Students 1 and 2 (**red**) made very little progress. The class teacher had a range of concerns about these Year One students. These students were also participating in a literacy intervention program and had made a concerning lack of progress in this area. The Bond Block data added to the evidence that was presented to the principal and parents which led to investigation by medical and allied health professionals.

Cohort Level

Reading the vertical columns provides cohort-level information. Columns where most of the students experienced difficulty show gaps in teaching/learning. This is often apparent in the content area of missing number equations. The example below highlights subtraction test questions where the missing number is in the whole position.

	1) Counting Activity	2) Bonds of 5	3) Double and Halve to 10	4) Five Plus Bonds	5) Bonds of 10	6) Bonds of 6, 7, 8, 9	7) Ten Plus Bonds	8) Double and Halve to 20	9) Double 7	10) Double 9	11) Double 16	12) Double 18	13) Double 19	14) Double 20						
	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
	$\square, 8, 9$	$5 - 3 =$	$\square + 2 = 5$	$One\ half\ of\ 6$	$8 - 5 =$	$\square + 4 = 10$	$10 - 7 =$	$10 - \square = 2$	$6 - 4 =$	$7 - 5 =$	$\square + 5 = 8$	$\square - 6 = 3$	$3 + \square = 13$	$\square - 6 = 10$	$14 - 8 =$	$Double\ 7$	$One\ half\ of\ 16$	$Double\ 9$	$Double\ 16$	$Double\ 18$

Another frequent example identified by schools when analysing cohort data is a difference in results between doubling and related halving. Schools often find students are fluent in doubling (for example, questions 16 and 18) but not halving (for example, questions 4 and 17).

Once these content areas are identified use the 'Mathematical Concepts Covered by Each Bond Block Activity' table to find activity numbers related to those topics. Complete these activities with the cohort.

Numbers represent activity board numbers.

Mathematical Concepts Covered by Each Bond Block Activity								
Activity Chapter	Bonds	Fluency	Addition	Subtraction	Equation Building	Missing Number Equations	Word Problems	Calculating Strategies
2) Bonds of 5	6	7, 8, 9	10	11	12	13	14, 15	
3) Doubling and Halving to 10	16	17, 18						19, 20
4) Five Plus Bonds	21, 22	23	24	25				
5) Bonds of 10	26	27, 28	29	30	31	32	33	
6) Bonds of 6, 7, 8, 9	34	36, 37		35	38	39	40	
7) Ten Plus Bonds	41, 42, 43		44, 45, 47	48 (Set A)	46	48 (Set B), 49		50, 51, 52, 53, 54, 55, 56
8) Doubling and Halving to 20	57	58, 59, 60, 61						62, 63
9) Bonds of 11 to 20			64	65	66	67	68	69, 70, 71
Teacher Notes	Using Part-Part-Whole: Desk Visuals		Building Equations: Using Part-Part Whole			Solving Missing Number Equations	Solving Word Problems	Solving Subtraction using Taking Away or Adding On

The table is particularly helpful when using Bond Blocks at a whole school level. Schools new to Bond Blocks often test the whole cohort of students, for example Year 4 students. Doing so helps to identify (i) those who need intervention and (ii) cohort gaps in teaching/learning.

Identifying the Teaching Focus

After the test the teacher uses a highlighter marker on the Recording Sheet to highlight the Teaching/Learning Foci column next to every response tested that was **not a 'correct fluent response'**.

If the student counted correctly to solve the test item they still need to complete the relevant chapter. The goal is correct, fluent responses.

Bond Blocks Test: Addition and Subtraction to 20		ASSESSMENT	
Recording Sheet			
Test Item		Complete During Test	
		Post Test 1 Date:	Post Test 2 Date:
		Teaching / Learning Focus	
Class:	Date:		
1 $\boxed{?} = 8, 9$	✓ fluent	✓ fluent	✓ fluent
2 $5 - 3 = \boxed{?}$	C correct, not fluent	C correct, not fluent	C correct, not fluent
3 $\boxed{?} + 2 = 5$	✗ incorrect	✗ incorrect	✗ incorrect
4 One half of 6 is $\boxed{?}$			
5 $8 - 5 = \boxed{?}$			
6 $\boxed{?} = 10$			
7 $\boxed{?} + 5 = 8$			
8 $\boxed{?} - 6 = 3$			
9 $\boxed{?} = 10$			
10 $7 - 5 = \boxed{?}$			Bonds of 7
11 $\boxed{?} + 5 = 8$			Bonds of 8
12 $\boxed{?} - 6 = 3$			Bonds of 9
13 $\boxed{?} = 10$			Ten Plus Bonds
14 $\boxed{?} + 5 = 10$			Ten Plus Bonds
15 $\boxed{?} - 5 = 5$			Double 6, 7, 8, 9 related halves
16 $\boxed{?} + 8 = 10$			Double 6, 7, 8, 9 related halves
17 $\boxed{?} - 8 = 2$			Double 6, 7, 8, 9 related halves
18 Double 9 is $\boxed{?}$			Bonds of 11 to 20
19 $13 - 8 = \boxed{?}$			Bonds of 11 to 20
20 $\boxed{?} - 7 = 8$			Bonds of 11 to 20

Recording for Pre-Test, Post Test 1 and Post Test 2.

Related teaching and learning focus.

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Students need to **complete the whole chapter** of activities for **every response** that was **not a 'correct fluent response'**. For example, there are three test questions for the Bonds of 10 chapter. If a student answered two of the questions with correct fluent responses and one question with a correct response but not fluent (counted or took greater than 3 seconds, recorded with a C), they still have to complete the whole Bonds of 10 chapter. This is because the questions are representative of typical difficulties.

Please use **teacher judgement** when interpreting the test results. For example, if a student answered Question 1 incorrectly but the next three questions correctly, the error would mostly likely be caused by the student settling into the testing, rather than a lack of knowledge in the counting sequence. Confirm this in a later session by asking similar questions to Question 1.

Note: Fluent responses are not an appropriate goal for students with diagnosed memory difficulties. Correct response is the appropriate goal for these students.

Tier Level Instructions

The teacher sets activities for the student from the relevant Bond Block chapter.

- For **tier one whole class teaching** the results will indicate the starting chapter. Students will then progress through all the chapters in order.
- For **tier two and three intervention** students will progress through the activities in order but only complete the chapters of activities they did **not** give a '**correct, fluent response**' (recorded with a tick).

The first time students use Bond Blocks they should always engage in the **Exploratory Play Activity**, outlined in the Implementation section of the Bond Blocks website. During this activity students develop familiarity with the different blocks and learn the correct language for the different types of blocks.

Student Reflection and Goal Setting

Students use their test results to set learning goals using the 'Bond Blocks Test - Student Reflection and Goal Setting' sheet.

Monitoring Progress

For teachers who prefer to use physical recording methods, progress can be monitored and observations recorded using the Recording Sheets. There are three levels of recording sheets:

1. Monitoring Sheet for an Individual Student (Tier 3 Intervention Only)

This is used for tier three intervention and can be attached to students' individual education plans.

2. Monitoring Sheet for Four Students (Tier 2 Intervention Only)

This is used for tier two intervention.

3. Monitoring Sheet for a Class (Tier 1 Whole Class Teaching)

This is used a tier one level to monitor key activities at a whole class level.


Monitoring Sheet
For an Individual Student (Tier 3 Intervention Only)

Name:					
Intervention Intervention requires four, ten-minute sessions a week. <ul style="list-style-type: none"> Sessions 1, 2 and 3 are on the activity that is the focus of the week. Record the dates of these sessions next to the activity in the first three columns. Session 4 is a review of previously completed activity. Record the dates of these sessions next to the activity in the fourth column. Note: shaded rows are not core activities. They are either "a little easier" or "a little harder". These activities will only be completed by some students at the discretion of the teacher.					
Achievement Record student achievement for this activity using: <ul style="list-style-type: none"> 0 (red) if the student required significant support, 1 (orange) if they required some support or, 2 (green) if they completed it independently. 					
Activity Number Date 1 2 Teacher Notes					
1) Forwards 1 to 10: Building Steps <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
1) Forwards 10 to 20: Building Steps (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
2) Number After: Greater Number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
2) Number After: Greater Number (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
3) Backwards 10 to 1: Building Steps <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
3) Backwards 20 to 10: Building Steps (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
4) Number Before: Lesser Number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
4) Number Before: Lesser Number (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
5) Identifying Numbers 1 to 5: Building Steps (a little easier) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
5) Identifying Numbers 6 to 10: Building Steps (a little easier) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					

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Monitoring Sheet
For Four Students (Tier 2 Intervention Only)

Intervention					
Intervention requires four, ten-minute sessions a week. <ul style="list-style-type: none"> Sessions 1, 2 and 3 are on the activity that is the focus of the week. Record the dates of these sessions next to the activity in the first three columns. Session 4 is a review of previously completed activity. Record the dates of these sessions next to the activity in the fourth column. Note: shaded rows are not core activities. They are either "a little easier" or "a little harder". These activities will only be completed by some students at the discretion of the teacher.					
Achievement Record student achievement for this activity using: <ul style="list-style-type: none"> 0 (red) if the student required significant support, 1 (orange) if they required some support or, 2 (green) if they completed it independently. 					
Activity Number Date 1 2 Teacher Notes					
1) Forwards 1 to 10: Building Steps <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
1) Forwards 10 to 20: Building Steps (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
2) Number After: Greater Number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
2) Number After: Greater Number (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
3) Backwards 10 to 1: Building Steps <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
3) Backwards 20 to 10: Building Steps (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
4) Number Before: Lesser Number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
4) Number Before: Lesser Number (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
5) Identifying Numbers 1 to 5: Building Steps (a little easier) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
5) Identifying Numbers 6 to 10: Building Steps (a little easier) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					

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Monitoring Sheet
For a Class (Tier 1 Whole Class Teaching)



Whole Class Teaching
 Monitored Activities appear at least once a term. These activity boards have been chosen because they effectively highlight students who need to be included in tier two intervention.
 The teacher observes each student in the class completing these activities and records their achievement on the Whole Class Monitoring tool.

Achievement					
Record student achievement for this activity using: <ul style="list-style-type: none"> 0 (red) if the student required significant support, 1 (orange) if they required some support or, 2 (green) if they completed it independently. 					
Activity Number Date 1 2 Teacher Notes					
1) Forwards 1 to 10: Building Steps <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
1) Forwards 10 to 20: Building Steps (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
2) Number After: Greater Number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
2) Number After: Greater Number (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
3) Backwards 10 to 1: Building Steps <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
3) Backwards 20 to 10: Building Steps (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
4) Number Before: Lesser Number <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
4) Number Before: Lesser Number (a little harder) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
5) Identifying Numbers 1 to 5: Building Steps (a little easier) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					
5) Identifying Numbers 6 to 10: Building Steps (a little easier) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>					

Monitoring Sheets are available to download in PDF and Excel formats on the website under Addition and Subtraction Kit > Monitoring.

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Individual Student

Four Student

Whole Class

These recording sheets can be downloaded from the Assessment and Monitoring section of the website. They are available in a paper (PDF) and electronic (Excel) versions.

Retesting: Tier One

At a tier one level the Bond Blocks Test is administered three times:

- Start of Year One.
- End of Year One.
- End of Year Two.

Each time the results are recorded on a separate sheet in the Bond Block Test Excel Results and Tracking Tool.

The test is **administered one-to-one** and takes approximately 3 minutes per student. Stop testing after three responses that are not correct, fluent responses. The test becomes increasingly difficult. Doing this will provide enough information to identify the starting point for groups of students and, in the future, monitor progress. Allocate between 60 to 90 minutes to test a class.

For specific test administration instructions see the '**Administering the Bond Blocks Test Instructions**' in the Bond Blocks Assessment Support Book.

1. Pre-Test

Administer the test to each student for the first time at the beginning of Year One, once the students have settled in. The test is given before the students start any Bond Block Core Activities.

2. Post-Test 1

Readminister the test at the end of Year One to identify progress.

3. Post-Test 2

The test will not need to be readministered at the start of Year Two. Instead the data from the end of Year One test will be used.

Readminister the test for a third time at the end of Year Two.

Retesting: Intervention

1. Pre-Test

Administer the test when students commence Bond Blocks, prior to the completion of any activities. This will establish a baseline. This often occurs in schools during March once students are settled.

2. Post-Test 1

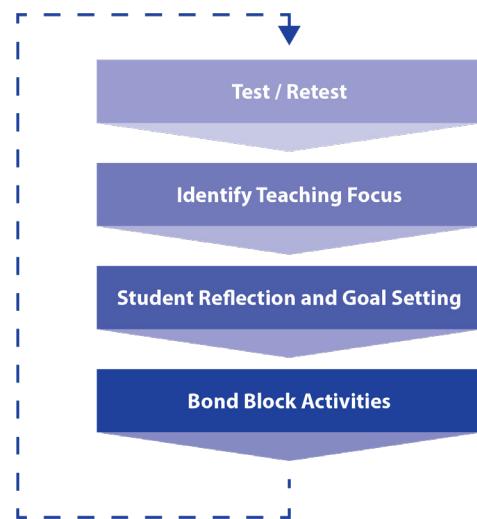
Readminister the test at the end of the year.

3. Post-Test 2

Readminister the test at the end of the following year.

Please note, some Tier Three students do not respond well to tests and give responses that are not indicative of their actual achievement. For these students, use the observations recorded on the Tier Three "Monitoring Sheet for an Individual Student" as a valid measure of their progress.

Targeted Teaching and Learning Cycle



Bond Blocks Test - Recording Sheet

Student Name: Class:	Complete During Test				Complete After Test	
	<input checked="" type="checkbox"/> fluent <input type="checkbox"/> C correct, not fluent <input type="checkbox"/> X incorrect				Teaching / Learning	
	Pre-Test Date:	Post Test 1 Date:	Post Test 2 Date:	Post Test 3 Date:	Highlight if not fluent	Bond Blocks Chapter
1 $?$, 8, 9					Counting	1
2 $5 - 3 = ?$					Bonds of 5	2
3 $?$ + 2 = 5					Bonds of 5	2
4 One half of 6 is $?$					Double 1,2,3,4,5 related halves	3
5 $8 - 5 = ?$					Five Plus Bonds	4
6 $?$ + 4 = 10					Bonds of 10	5
7 $10 - 7 = ?$					Bonds of 10	5
8 $10 - ? = 2$					Bonds of 10	5
9 $6 - 4 = ?$					Bonds of 6	6
10 $7 - 5 = ?$					Bonds of 7	6
11 $?$ + 5 = 8					Bonds of 8	6
12 $?$ - 6 = 3					Bonds of 9	6
13 $3 + ? = 13$					Ten Plus Bonds	7
14 $?$ - 6 = 10					Ten Plus Bonds	7
15 $14 - 8 = ?$					Ten Plus Bonds	7
16 Double 7 is $?$					Double 6, 7, 8, 9 related halves	8
17 One half of 16 is $?$					Double 6, 7, 8, 9 related halves	8
18 Double 9 is $?$					Double 6, 7, 8, 9 related halves	8
19 $13 - 8 = ?$					Bonds of 11 to 20	9
20 $?$ - 7 = 8					Bonds of 11 to 20	9

Bond Blocks Test - Student Viewing Sheet

- Place this sheet in front of the student. Screen items not being read using a piece of blank paper.

Read instructions in these boxes to the student **before showing the adjacent question.**

- Read each test item to the student. Use your finger to **point to each number and symbol as it is said**.
- Students respond verbally. Student responses are recorded by the teacher on the Recording Sheet.

"When counting, what number goes here?"

"Something (Point to the missing number box), eight, nine."

"For the rest of the questions tell me what number goes in the missing number box."

1) , 8, 9

2) $5 - 3 =$

3) + 2 = 5

4) One half of 6 is

5) $8 - 5 =$

6) + 4 = 10

7) $10 - 7 =$

8) $10 -$ = 2

9) $6 - 4 =$

10) $7 - 5 =$

11) + 5 = 8

12) - 6 = 3

13) $3 +$ = 13

14) - 6 = 10

15) $14 - 8 =$

16) Double 7 is

17) One half of 16 is

18) Double 9 is

19) $13 - 8 =$

20) - 7 = 8

Bond Block Test - Student Reflection and Goal Setting

Name: _____

Date: _____

Circle how you feel after your test:



I feel like this because: _____

Tick what you need to focus on:

Counting
Bonds of 5
Double 1, 2, 3, 4, 5 and related halves
Five Plus Bonds
Bonds of 10
Bonds of 6, 7, 8, or 9
Ten Plus Bonds
Double 6, 7, 8, 9, 10 and related halves
Bonds of 11 to 20

My goal is to: _____

Teacher comment:

Parent comment to their child: