



Getting Started

- 2. Watch the Introducing Bond Blocks Professional Learning Video (on USB).
- 3. Read the Implementation Guide which will explain how to get started with the Bond Blocks System. for Whole Class Teaching in Years 1 to 3 or as Intervention for Years 1 to 6.
- 4. Try a few activities in your classroom.
- 5. Watch the **Implementation Videos** for tips on how to use the Bond Blocks Core Kit (on USB).



Bond Blocks Implementation bondblocks.com/implementation

Complete every activity board

with one set of Bond Blocks.

Countina

- 1) Forwards 1 to 10: Building Steps
- 1) Forwards 10 to 20: Building Steps a little harder
- 2) Number After: Greater Number
- 2) Number After: Greater Number a little harder
- 3) Backwards 10 to 1: Building Steps
- 3) Backwards 20 to 10: Building Steps a little harder
- 4) Number Before: Lesser Number
- 4) Number Before: Lesser Number a little harder
- 5) Identifying Numbers 6 to 10: Building Steps
- 5) Identifying Numbers 1 to 5: Building Steps a little easier

Bonds of 5

- 6) Bonds: Building a Wall
- 7) Fluency: Filling a Wall
- 8) Fluency: Tic-Tac-Toe
- 9) Fluency: Racing Cars
- 10) Addition: Building a Wall
- 11) Subtraction: Building a Wall
- **12) Equation:** Building
- **12) Equation:** Building a little easier
- 13) Missing Number Equations: Three In a Row
- 13) Missing Number Equations: Fill a Row a little easier
- 13) Missing Number Equations: Tic-Tac-Toe a little harder
- 14) Representing Addition: Thinkboard
- 14) Representing Subtraction: Thinkboard
- **15) Word Problems:** Wholes to 5

Doubling and Halving to 10

- 16.1) Bonds: Building a Wall (section 1)
- **16.2) Bonds:** Building a Wall (section 2)
- 17) Fluency Doubles: Filling a Wall
- **18) Fluency Halves:** Filling a Wall
- 19) Near Double: Strategy Concept
- 19) Near Double: Strategy Concept a little harder
- **20) Near Double:** Strategy Fluency
- 14) Representing Subtraction: Thinkboard
- **15) Word Problems:** Wholes to 5

Five Plus Bonds

- 21.1) Bonds: Building a Wall (section 1)
- 21.2) Bonds: Building a Wall (section 2)
- 22) Bonds: Multiple Representations
- 23) Fluency: Tic-Tac-Toe
- 24) Addition: Building a Wall
- 25) Subtraction: Building a Wall

1. Watch the **Unboxing Videos** to see what is in your kit (on USB and online).



Bond Blocks USB

The Bond Blocks Core Kit includes a USB with an offline copy of the website content, videos modelling every activity for explicit teaching and support materials.



26.1) Bonds: Building a Wall (section 1 and 2)

- 26.2) Bonds: Building a Wall (section 3)
- 27) Fluency: Filling a Wall
- 28) Fluency: Tic-Tac-Toe
- **29) Addition:** Building a Wall
- **30) Subtraction:** Building a Wall
- **31) Equation:** Building **31) Equation:** Building a little easier
- 32) Missing Number Equations: Fill a Row
- 32) Missing Number Equations: Tic-Tac-Toe a little harder
- **33) Representing Addition:** Thinkboard
- **33) Representing Subtraction:** Thinkboard

Bonds of 6, 7, 8, 9

- **34) Bonds of 6 or 7 Bonds:** Building a Wall
- **34) Bonds of 8 or 9 Bonds:** Building a Wall
- **35.1) Subtraction:** Building a Wall (section 1)
- 35.2) Subtraction: Building a Wall (section 2)
- **36) Fluency:** Shake and Spill
- **37) Fluency:** Racina 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

Ten Plus Bonds

- **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) Equation:** Building (section 1)
- **46.2) Equation:** Building (section 2)
- **47) Addition:** Building a Wall
- **48.1) Subtraction:** Tic-Tac-Toe (section 1)
- **48.2) Subtraction:** Tic-Tac-Toe (section 2)
- 49) Missing Number Equations: Tic-Tac-Toe
- 49) Missing Number Equations: Tic-Tac-Toe a little harder

Ten Plus Bonds (continued)

- **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**

Doubling and Halving to 20

- 57.1) Bonds: Building a Wall (section 1)57.2) Bonds: Building a Wall (section 2)
- **58) Fluency Doubles:** Filling a Wall
- **59) Fluency Halves:** Filling a Wall
- **60) Fluency Doubles:** Racing Kayaks
- **61) Fluency Halves:** Racing Snowboards
- 62) Near Double: Strategy Concept
- 62) Near Double: Strategy Concept a little harder
- **63) Near Double:** Strategy Fluency

Bonds of 11 to 20

- **64) Addition:** Lulu
- **65) Subtraction:** Difference
- **66) Equation:** Building
- **67) Missing Number Equations:** Racing Motorcycles
- **68) Word Problems:** Wholes to 20
- **69) Near Ten:** Strategy +9
- **69) Near Ten:** Strategy +9 **a little harder**
- 70) Near Ten: Strategy -11
- 70) Near Ten: Strategy -11 a little harder
- 71) Near Ten: Strategy -9
- 71) Near Ten: Strategy -9 a little harder

Missing Number Equations





Game 1

$$0 + \underline{\hspace{1cm}} = 5$$

$$I + _{--} = 5$$

2 Player

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$$_{-}$$
 + I = 5

$$_{-}$$
 + 0 = 5

$$5 - _{-} = 1$$

To be the player who places the third counter in a row (in consecutive boxes) on the game board.

Materials

A game for pairs. Each pair needs:

• Six transparent counters, in one colour.

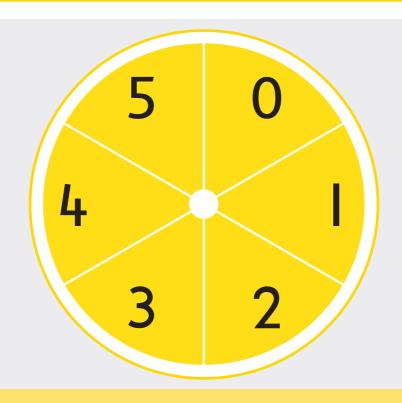
The number on the spinner matches the missing number (empty line) in each equation.

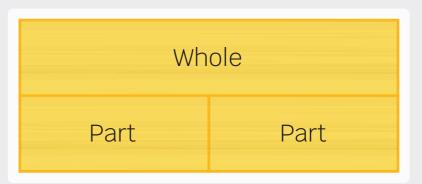
Player One:

- Flick the spinner.
- Think "What joins with (number spun) to build five?"
- Look for the **number that joins with** the number spun to build the whole. Do not look for the number spun.
- Say the complete equation including the missing part. For example, "2 add 3 equals 5", "5 subtract 2 equals 3".
- Place their counter on the matching equation.

Player Two has their turn.

If a player spins a number they have already filled, they say the equation, but do not place a counter.





Part + Part = Whole Whole - Part = Part

Assist students by pointing to the known part of the equation. Ask, "What joins with this to build five?" This number (the unknown part) is what the student wants to spin next.

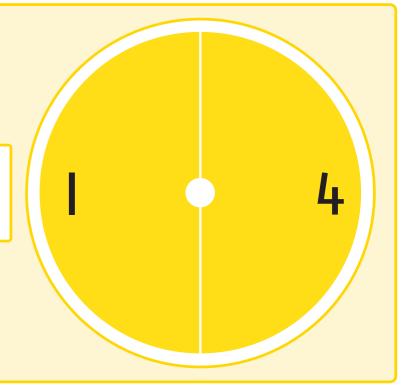
Note: Play one game per session.

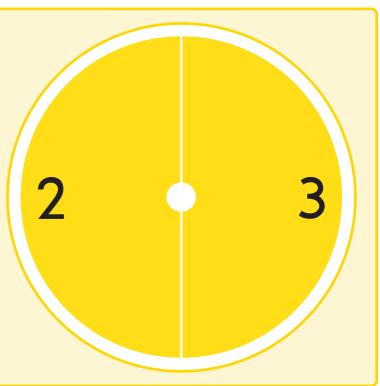












To be the player who places the final counter to fill the row.

Materials

A game for pairs. Each pair needs:

• Four transparent counters, in one colour.

Instructions

The number on the spinner matches the missing number (empty line) in each equation. Player One:

- Flick the spinner.
- Think "What joins with (number spun) to build five?"
- Look for the **number that joins with** the number spun to build the whole. Do not look for the number spun.
- Say the complete equation including the missing part. For example, "2 add 3 equals 5", "5 subtract 2 equals 3".
- Place their counter on the matching equation.

Player Two has their turn.

If a player spins a number but cannot place a counter, the other player has a turn.

Assist students by pointing to the known part of the equation. Ask, "What joins with this to build five?" This number (the unknown part) is what the student wants to spin next.

Note: Play Game 1 each session until students are fluent. Then play Game 2 in subsequent sessions until students are fluent.



Part + Part = Whole Whole - Part = Part

Bonds of 5 Tic-Tac-Toe Missing Number Equations Alittle harder





0 + = 5	+ 5 = 5	5 = 5	5 = 0
I + = 5	+ 4 = 5	5 = 4	5 = I
2 + = 5	+ 3 = 5	5 = 3	5 = 2

To be the first player to place a counter making three in a row, column or diagonal.

A game for pairs. Each pair needs:

• Approximately ten transparent counters, in one colour.

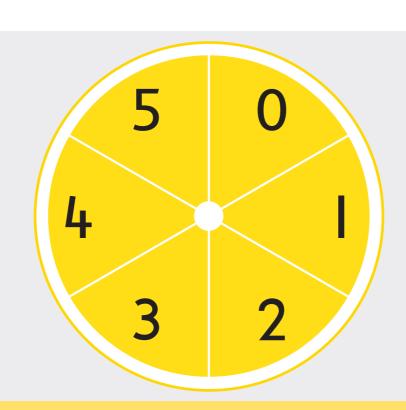
The number on the spinner matches the missing number (empty line) in each

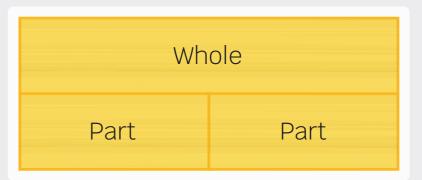
Player One:

- Think "What joins with (number spun) to build five?"
- Look for the **number that joins with** the number spun to build the whole. Do not look for the number spun.
- Say the complete equation including the missing part. For example, "2 add 3 equals 5", "5 subtract 2 equals 3".
- Place their counter on the matching equation.

Player Two has their turn.

If a player spins a number but cannot place a counter, the other player has a turn.





Part + Part = Whole Whole - Part = Part

Assist students by pointing to the known part of the equation. Ask, "What joins with this to build five?" This number (the unknown part) is what the student wants to spin next.

Question

1

On his worksheet, Li got one question wrong and 4 questions correct. How many questions were on Li's worksheet?



Question

2

There were 2 plates in the sink that needed to be washed and some cups. Altogether 5 things needed to be washed.

How many cups needed washing?



Question

3

Jane has pet cats. There were 3 children at Jane's house. Each child picked up one cat. This left 2 cats without anyone to cuddle them. How many cats were there at Jane's house?



Chocolate bites come in bags of 5. Josh had one bag in the fridge. After eating two each day, for two days how many were left in the fridge?



Question

8

Aisha had 5 toy ponies. Some were brown. The other 3 were white. How many brown ponies did Aisha have?



Question

9



Kate was putting away her textas. Three had no lids so were dried out. Kate had two more textas with lids than without. How many textas did Kate have still with lids?

Question

4

At the fast food drive-through there were 2 drinks and some burgers on the menu page. There were 5 items listed on the menu. How many burgers were listed?



Question

10

In the fruit bowl there were some red apples and 2 green. There were three more red than green. How many red apples were there?



Question

5



There were some blue donuts and 5 pink donuts. There were 2 more pink donuts than blue. How many blue donuts were there?

11

Question

There were some ducks swimming on the lake.

There were 5 ducks sleeping on the grass.

There were 3 more ducks sleeping than swimming.

How many ducks were swimming on the lake?

Question

6

The sport teacher was matching one ball to every bat when tidying up. Four bats had a matching ball. There was one bat fewer than balls. How many balls were there?



12

There were some bones and 4 dogs. Each dog picked up one bone to eat. There was one dog fewer than there were bones. How many bones were there?



Bonds of 6, 7, 8, 9, 10 Word Problems Core

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Question

John's class kept caterpillars. Before going home he carefully counted the cocoons. There were 8. When he arrived at school the next morning some had turned into butterflies and flown away. He counted 5 remaining cocoons. How many butterflies flew away?



Question

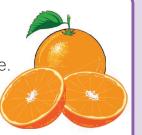
Grace had some pocket money in her wallet. She went to the shops to buy lunch. She bought a \$3 milkshake and a \$4 sandwich for lunch. After eating her lunch she looked in her wallet and saw she only had \$2 left. How much was in her wallet to start with?

Question

When students in Miss Star's class followed instructions she gave them group points. The blue group had 3 fewer points than the winning yellow team. The yellow team won with 9 points. How many points did the blue team score?

Question

There was a bag full of oranges. Six were squeezed to make juice. This left 4 in the bag. How many were in the bag to start with?



Question

Abdalla planted 10 seedlings in his garden but it rained overnight and the snails ate some. The next morning he only had 8 seedlings left. How many seedlings did the snails eat?



Question



Tim had 2 battery operated toy trains. His friend Isabelle had 4 more than him. Tim went to play at Isabelle's house and took his trains. How many trains did they have to play with together?

Question

Chung's Dad gave him some packets of collector cards. Each packet had one card inside. He had opened 7 packets and had 3 packets still to open. How many packets did his dad give him?



Question

Yassmine is at her local library. Each person is allowed to borrow 7 books. She has 5 books on loan at home. How many can she borrow today?



Question

Kaitlyn cooked cupcakes. She iced some but ran out of icing. There were 3 cupcakes left without icing. She counted the iced cupcakes and found she had two more with icing than those without. How many cupcakes did she cook?

Question

Louisa's mum bought two punnets of strawberries. One large punnet and one small one. The large one had 5 more strawberries than the small one. Louisa ate the whole small punnet of 4 strawberries. How many strawberries are in the large punnet?



Question

During sport the class was split into two teams and played each other in a game of football. The losing team scored 4 goals and lost by 3. How many goals did the winning team score?



Question





After lunch the children from Miss Tayla's room line up in two lines. One line of girls and one line of boys, standing next to each other in pairs. The boys' line has 4 fewer children than the girls' line which has 7 girls. How many children are in Miss Tayla's class?



Question

Kyle ate some lollies from the packet. There were 12 left. Before Kyle started eating there were 18 lollies. How many did he eat?











Question

In a pencil case there were 13 pencils and the rest were pens. All together there were 19 items in the pencil case. How many were pens?



Question

Dad had some spanners in his toolbox and 6 screwdrivers. This made 14 tools altogether. How many spanners did he have?

Question





In a class 8 children had pet cats. Seven more than this had dogs. How many children had pet dogs?

Question

In a basketball game the winning team scored 17 points. They won by 9 points. How many points did the losing team score?



Question



In a soccer game the losing team scored 6 goals. They lost by 7 goals. How many goals were kicked in the game?

Question



Mum bought a packet of pretzels for her children to eat after school. After the children had eaten 7 there were 9 left in the packet. How many were in the packet to start with?

Question

There were 20 apples on an apple tree. The farmer picked the ripest. This left 16 on the tree. How many did the famer pick?





6



In the dishwasher there were some drinking glasses and 8 coffee cups. There were 5 more drinking glasses than coffee cups. How many drinking glasses were there?

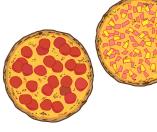
Question



In the car park there was a long queue of cars waiting for a green traffic light. Eight cars got through the green light before it changed. This left 12 cars waiting. How many cars were in the queue of cars before the green light?

Question

When ordering pizza 12 people chose Hawaiian. This is 5 less than the number of people who chose Meat Lovers. How many chose Meat Lovers?



Question

Melissa collected tea cups and saucers. When she matched the cups and saucers she found she had 7 fewer saucers. There were 12 saucers. Unfortunately whilst she was matching them she broke 3 tea cups. How many tea cups did she end up with?