Bond Blocks Counting to 10 & 20 Kit (2024 Ed.)







[SAMPLE]

This sample contains a small set of the activities that come with the Bond Blocks Counting to 10 & 20 Kit

Lessons and Videos can be freely found at bondblocks.com



- **Mathematics**
- Identify quantities of 1, 2, 3, 4 and 5, in a standard arrangement, without counting.
- Move a counter, jumping 1, 2, 3, 4 or 5 spaces on a number track.
- Connect that moving right on a number track makes the number greater.

Language

- Move one/two/three/four/five spaces
- Move right one/two/three/four/five spaces
- Move left two spaces
- "As you move right the numbers become greater"
- "You can see one, two, three, four and five without counting"

Materials

A game for pairs. Each pair needs:

• Two two-sided counters, one for each player.

Instructions Place counters on START.

Player One (student role) flicks the spinner and moves that many spaces.

Player Two (teacher role) flicks the spinner and moves that many spaces.

Both players can land on the same space. Take turns until a player wins by reaching the END first.

See the corresponding webpage bondblocks.com.au for differentiation.



Counting Backwards 20 to 10

Number Before: Number Line

Mathematics

• Develop fluency representing the number before on a number line from 0 to 20.

Language

- one shorter
- one less than
- one number before

Materials

An activity for two players. Each pair needs:

- One of each Bond Block from 1 to 10 in a **jumbled pile**.
- One clear round spinner.
- · Ten two-sided counters, five for each player.

Instructions

(i) Player One's (student role): Number Line

Player One (student role):

- Flicks the spinner.
- · Says the number that comes before the number spun.
- · Points to the marker on the number line that is after the number spun and leaves their finger on the line.

Player Two (teacher role) places the block that completes representing the number **before** the number spun, on the number line, to confirm the answer.

If the student was incorrect they move their finger to the correct marker.

Leave the block on the number line.

(ii) Player Two's: Number Line

Repeat with roles reversed.

If the second player spins the same number as the first player, spin again.

(iii) Comparing Numbers

The player with the **lesser number** wins and records this by placing a counter on their five frame.

Players clear their number line. Play continues until the time is up or one player has filled their five frame.

The overall winner is the one who has placed the most counters.

Encourage students to move on from counting by ones starting at the beginning to using strategies such as seeing:

- 11, 12 and 13 without counting.
- 14 as one before 15.
- 15 as the middle.
- 16, 17, 18 count on 1, 2, 3 from 15.
- 19 as one before 20.

See the corresponding webpage bondblocks.com.au for differentiation.



Player One's Five Frame











Student Led Activities



Exploratory Play

When first opening a box of Bond Blocks students need to complete a range of Introductory Activities to explore characteristics of the blocks and relationships between them.

Students need to engage in these activities before beginning the Teacher Led Counting Activities.

Complete every activity board with one set of Bond Blocks.





Narelle Rice & Dr Paul Swan

drpaulswan.com.au

Contents



Contents

General Instructions

Activity Sequence Page Layout

- Introductory Play
- 2. Building Things I Know

Instructions **Symmetry Comparing Numbers**

3. Bond Blocks and 2 cm Cubes

Connecting Cubes and Bond Blocks Building with Cubes and Bond Blocks

4. How Many Cubes? Up to three.

Subitising Sticks of 1, 2 and 3

5. Building Roads: Routes

Learning Space Set-Up Learning Space Interactions

6. Building Roads: Wheels and Ramps

Learning Space Set-Up Learning Space Interactions

7. Building Roads: Counting Order

Starting at One Correcting Number Orientation Counting Fluency

8. Building Towers

Counting Forwards Counting Backwards

9. Building Steps: Counting Forwards

Fluency Counting Forwards Different Block Orientations Correcting Number Orientation Number After

10. Building Steps: Counting Backwards

Fluency Counting Backwards **Different Block Orientations Correcting Number Orientation** Number Before

Building Mountain Steps

Counting Backwards Number Before **Counting Back From Any Number**

12. How Many Cubes? Four or more. Sticks of 4, 5, 6, 7, 8, 9 and 10

3. Building Roads: Comparing Numbers

Roads made of the same blocks Roads that are the same length Comparing the length of two roads

14. Comparing Steps

Same Blocks in a Different Order Same Size Jumps that are not one **Different Sized Jumps**

15. Comparing Mountain Steps

Different Heights Same Height with Different Treads Same Height using Different Blocks

16. Comparing Towers

Different Height Towers Same Height Towers Multi-Block Towers

7. Building Walls

Starting with One Block Starting with Two Blocks (or more) Exploratory Play



Activity Sequence

The activities have been sequenced from the easiest mathematical concepts to the hardest. The activities on each page have also been sequenced from the easiest concept to the hardest.

Page Layout

The activities have been designed to fit on one page so that they can be printed as needed. There are a range of prompts for both teachers and students. Each type of prompt has been formatted with its own design to make this easier to access during teaching.



Guided Play Activities



Matching Cards

About The Cards

The Matching Cards have actual sized images of every Bond Block that needs to be placed.

Using The Blocks

Students match the blocks, placing them directly on the card, whilst **saying** the number name.

Maths Thinking

Students focus on **connecting** the spoken number name, written number and length of the block.



Complete every activity board with one set of Bond Blocks.

Narelle Rice & Dr Paul Swan



• You will need one box of Bond Blocks.

Hill

- Choose blocks from the box to fill the activity card.
- Say the number name as you place the blocks.







Whale

- You will need one box of Bond Blocks.
- Choose blocks from the box to fill the activity card.
- Say the number name as you place the blocks.



