

Counting to 20 with Bond Blocks

Activity Cards for Foundation (Ages 5+)



64 Cards
4 Levels of Difficulty



Use with one set of Bond Blocks per student.

Copyright

Counting to 20 with Bond Blocks: Activity Cards for Foundation (Ages 5+)

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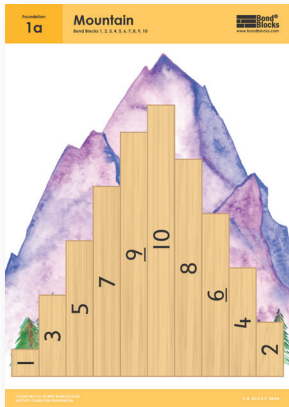
Complete every activity card with one set of Bond Blocks.



Four Types of Cards

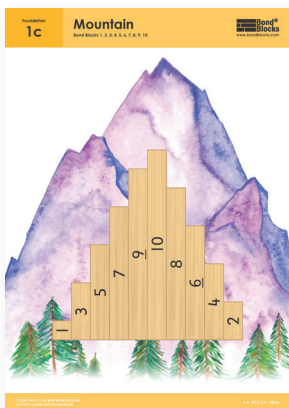
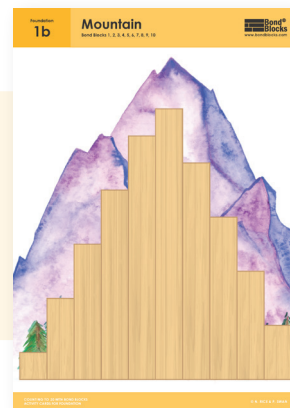
There are four types of cards. Each type increases in difficulty.

Develop fluency completing one type of card, for example 'a', before moving onto the next type, for example 'b'.



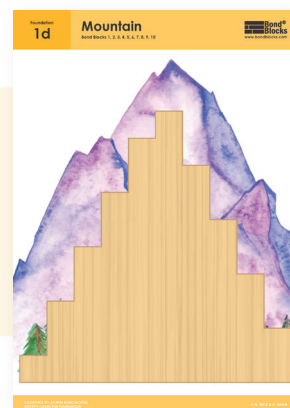
a. **Matching:** These cards are the easiest because the blocks can be placed directly on the cards, the individual block lines have been drawn in and each block is numbered.

b. **Choosing:** The blocks are placed directly on the cards, but these cards are more difficult than type 'a' because the block numbers have been removed.



c. **Building:** These cards contain a reduced image of the completed build. Students need to use the image to recreate the build. This is difficult, like building flat-pack furniture.

d. **Filling:** The blocks are placed directly on the cards. These cards are the most difficult because the individual block lines have been removed.



Students could complete one type of card, in each of the 12 designs, per term.

Using the Activity Cards

Mathematics

Explore relationships between numbers, length and shapes.

Language

- Number language: worth less/more, less than/greater than, before/after, equal to
- Length language: short/shorter/shortest, long/longer/longest
- Shape language: square, rectangle, triangle, cube, turn, corner, side, small/smaller/smallest, big/bigger/biggest, large/larger/largest
- Positional language: above, below, between, forward, near, next to, on, toward, under

Materials

An activity for individual students.
Each student needs:



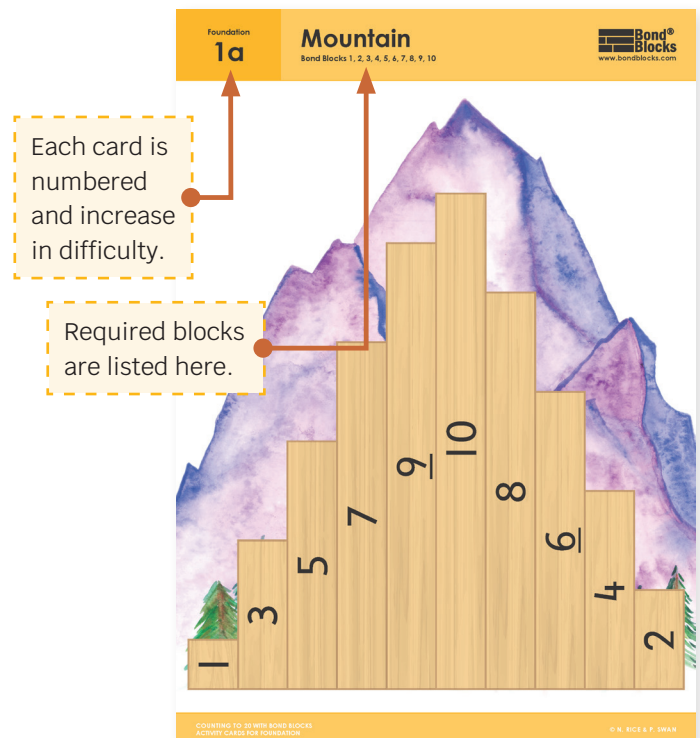
One set of
Bond Blocks.



One Activity Card.

Instructions

- Select a card.
- Take the required blocks out of the Bond Block case and close the lid.
- Complete the card with the specified blocks.
- Open the Bond Block case and see if the card can be completed with different blocks. For example, **swap a 3 block for a 2 and 1.**
- Pack away.



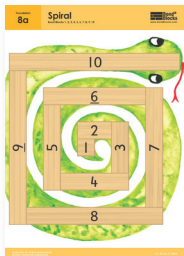
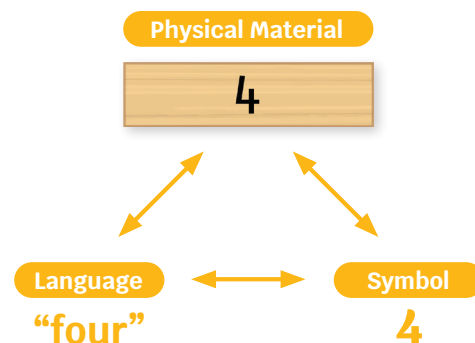
Focus Learning

Each of the four different types of cards has a different mathematical focus.

a. Matching

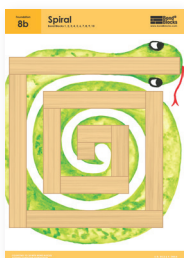
When students are matching blocks encourage mathematical talk to help them connect the written numeral, spoken number word and length of the block.

Also encourage the use of length, shape and positional language. For example, **“I need to put the 4 block here, below the 7”**.



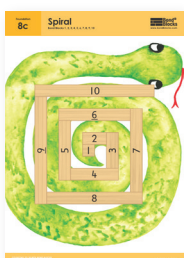
b. Choosing

Students learn about the size of numbers in relation to each other by making choices about which block to use based on the length of blocks already placed. For example, **“I need a block that is a little longer than 3. I’ll try 4”**.



c. Building

When students reconstruct these designs on the desk next to the activity card they do not have a template. To place the blocks students need to focus on the position of blocks in relation to each other. Teachers can describe students’ actions placing the blocks to model mathematical language. For example, **“You slid the 4 block down, then turned it”**.



d. Filling

These cards are very difficult. Completing them requires problem solving, spatial reasoning and persistence. Students need lots of time, practise and support to develop this type of higher order thinking and disposition.



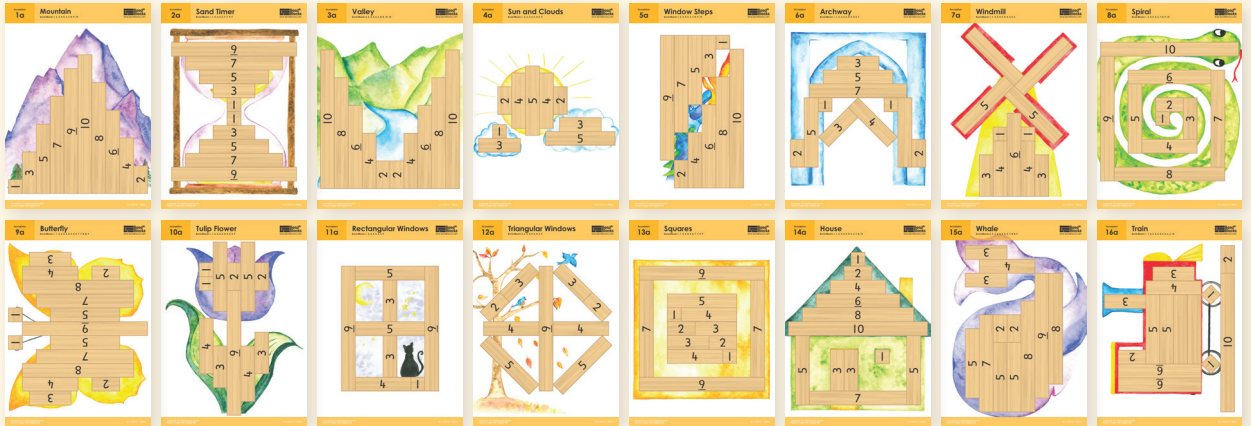
Alternative Activities

Encourage students to create their own design using Bond Blocks on top of a piece of A3 paper.

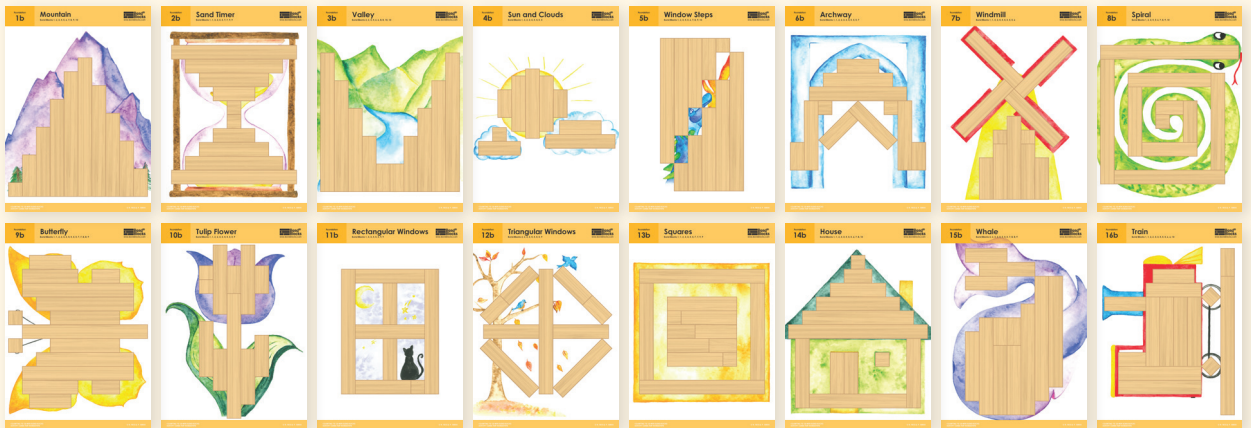
Photograph designs for others to recreate.

Cards in this Set

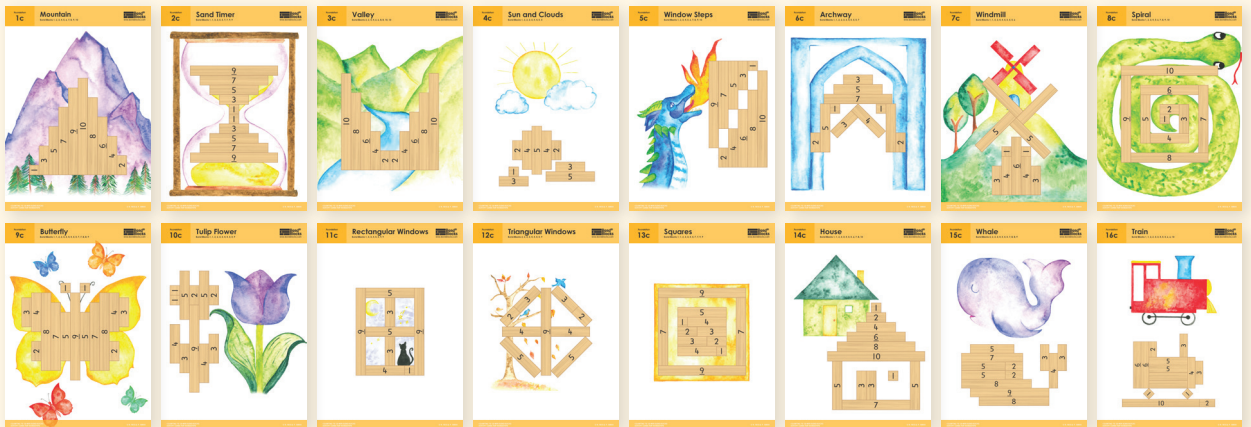
a



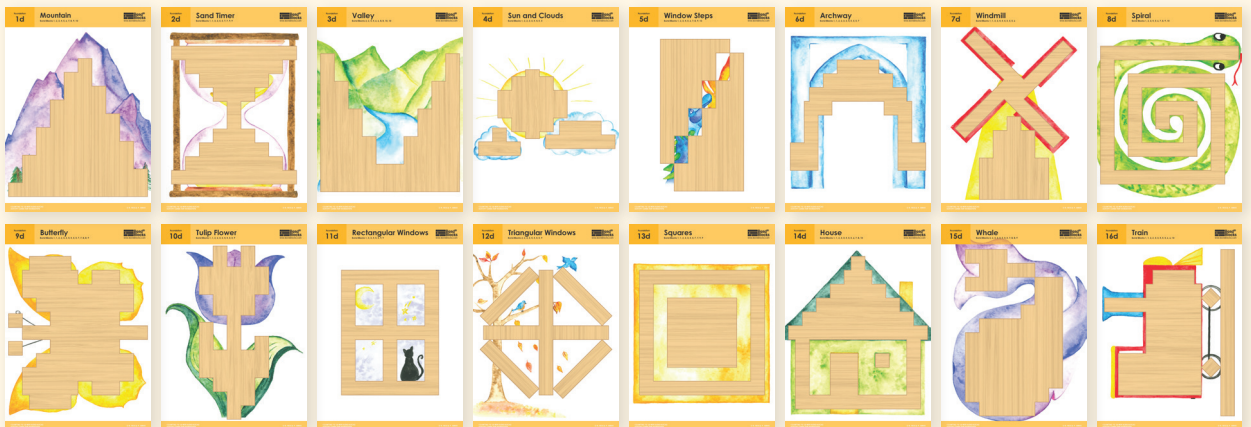
b



c



d



Curriculum Links

Australia and WA

Number and Algebra

Activity	Curriculum Links: Foundation
Recognising numbers	<ul style="list-style-type: none">• ACMNA002: Connect number names, numerals and quantities, including zero, initially up to 10 and then beyond.
Matching, choosing, building and filling activity cards	<ul style="list-style-type: none">• ACMNA005: Copy, continue and create patterns with objects and drawings.

Measurement and Geometry

Activity	Curriculum Links: Foundation
Comparing Length	<ul style="list-style-type: none">• ACMMG006: Use direct and indirect comparisons to decide which is longer... and explain reasoning in everyday language.
Two-dimensional Shape	<ul style="list-style-type: none">• ACMMG009: Sort, describe and name familiar two-dimensional and three-dimensional objects in the environment.
Positional Language	<ul style="list-style-type: none">• ACMMG010: Describe position and movement.

Victoria

Number and Algebra

Activity	Curriculum Links: Foundation
Recognising numbers	<ul style="list-style-type: none">• VCMNA070: Connect number names, numerals and quantities, including zero, initially up to 10 and then beyond.
Matching, choosing, building and filling activity cards	<ul style="list-style-type: none">• VCMNA076: Copy, continue and create patterns with objects and drawings.

Measurement and Geometry

Activity	Curriculum Links: Foundation
Comparing Length	<ul style="list-style-type: none">• VCMMG078: Use direct and indirect comparisons to decide which is longer... and explain reasoning in everyday language.
Two-dimensional Shape	<ul style="list-style-type: none">• VCMMG081: Sort, describe and name familiar two-dimensional and three-dimensional objects in the environment.
Positional Language	<ul style="list-style-type: none">• VCMMG082: Describe position and movement.

Where to Next?

For students in Foundation there is the “Counting to 20 with Bond Blocks” book and “Counting to 20 with Bond Blocks Activity Cards”. Each of these items can be purchased separately or as part of the “Counting to 20 with Bond Blocks Kit”.

Foundation

Counting to 20 with Bond Blocks: Foundation (Ages 5+)

Counting to 20 with Bond Blocks Kit.

Counting to 20 with Bond Blocks Activity Cards. (64 Cards)

1× Counting to 20 with Bond Blocks (Foundation Ages 5+)

1× Counting to 20 with Bond Blocks Activity Cards for Foundation (Ages 5+)

4× Bond Blocks Sets

5× Spinners

2× Connecting 2 cm Cubes

These Cards

For Mental Maths in Years 1 to 3 and Intervention Support in Years 1 to 6, the Bond Blocks Core Intervention Kit is recommended.

Bond Blocks is a system of over 100 sequenced activities to comprehensively teach Year 1 to 3 Addition and Subtraction, including application to word problems and related algebra.



Mental Maths for Years 1 to 3

Connect part-part-whole understanding with basic addition and subtraction fact fluency and associated word problems.

Intervention Support System for Years 1 to 6

Intervene early with younger students to close the gap. Help students move on from counting to add and subtract.

The Bond Block Test is used for placement and monitoring. Activities designed to support students with learning disabilities.

Visit the website for more information
www.bondblocks.com