

Investigation Goldilocks

The classic fairytale, *Goldilocks and the Three Bears*, provides the context for an Investigation into how Goldilocks makes amends for her bad behaviour by inviting the Three Bears to a special morning tea. Students will practise and consolidate many early mathematical concepts, including matching, ordering, sequencing, collecting data, fractions and sharing as they re-enact the story, make sandwiches and work out how to share them equally.



Student Book links

The following Tear-outs are essential to this Investigation. They can be found in the back of the Student Book, or downloaded from imathsonline.com.au.

- Tear-out 6** Sort and match 1 page 109
- Tear-out 7** Sort and match 2 page 111
- Tear-out 8** Goldilocks sequence..... page 113
- Tear-out 9** Halves page 115

The following Topic pages can be used to introduce or consolidate the maths concepts in this Investigation.

- NA6** Groups of 3 page 13
- NA7** Fruit face count page 14
- NA8** Food count at the zoo page 15
- NA16** Worm count..... page 24
- NA18** See the pattern page 26
- NA19** Turtle patterns page 27
- NA37** Animal patterns..... page 47
- NA59** Three pigs share equally..... page 69
- MG13** Budgies in a row – smallest to biggest..... page 83
- SP4** Favourite playtime activity page 96

It's iMaths Time CD tracks

Track 23: *When Goldilocks went to the house of the bears*



Essential word list

Comparative language

big, bigger, biggest; small, smaller, smallest; large, larger, largest; less, more; least, most; the same as; too hot, too cold

Attributes

cold, hot, just right; hard, soft; big, small, middle-sized; full, empty

Positional language

first, next, last, before, after; on, off; top, bottom; on top

Common 2D shapes

circles, triangles, rectangles, squares, diamonds, hearts

Fractional language

whole; part of, slice of, piece of, fraction of; half, halves, middle; quarters (optional); equal parts, share equally

Investigation 4 Goldilocks

Investigation overview

Below are the activities that occur within each step. Detailed explanations for each activity can be found on pages 59–65.

Step 1. The Three Bears

- **Goldilocks and the Three Bears** – read the story of *Goldilocks and the Three Bears* aloud to class.
- **Goldilocks story sequence** – students set up a role play area and act out the story of *Goldilocks and the Three Bears*.

Resources

Book: *Goldilocks and the Three Bears*

Props: table, chairs, bowls, spoons, beds, letterbox

Tear-outs: Tear-outs 6 and 7 (*Sort and match*), Tear-out 8 (*Goldilocks sequence*)

iMaths CD: *When Goldilocks went to the house of the bears* (Track 23)

Step 2. An invitation

- **Morning tea food** – identify appropriate food for a morning tea with the Three Bears.
- **Favourite sandwiches** – collect data about what are the favourite sandwiches among classmates.
- **Class picture graph** – create a class picture graph using the collected data about favourite sandwiches.

Resources

Props: A3 envelope and written invitation

BLM: 4.1

Step 3. Sandwiches for lunch

- **How to make a sandwich** – discuss and demonstrate how to make a sandwich.
- **Halves and quarters** – explore the concept of a fraction as part of a whole and half, meaning 2 equal pieces that make a whole.
- **Equal shares of collections** – practise the concept of sharing equally between groups.

Resources

Props: food that can be cut in half, coloured paper squares and shapes, paper plates and concrete materials

BLM: 4.2

Tear-out: Tear-out 9 (*Halves*)

Step 4. Morning tea

- **Plan the morning tea** – help Goldilocks plan her morning tea for the Three Bears.
- **Design placemats** – make and decorate placemats for the Three Bears' morning tea.
- **Making the sandwiches** – investigate how to share the sandwiches equally and use the concept of one-to-one correspondence to set the table for the Three Bears' morning tea.

Resources

Props: A3 paper, bread, butter, honey, breadboard, plastic knives, napkins

BLMs: 4.3, 4.4 and 4.5

Explore and play

Indoor activities:

- Three Bears puppets
- Three Bears bingo game
- Let the porridge cool board game
- Playdough activity
- Make and taste porridge
- Collage
- Construction
- Weblinks
- *It's iMaths Time* songs

Outdoor activities:

- Teddy bears' picnic
- Bear's obstacle course
- Build the Three Bears' cottage
- Sandpit play

Resources

BLMs: 4.6, 4.7, 4.8, 4.9, 4.10 and 4.11

iMaths CD: *Teddy bear, teddy bear, turn around* (Track 25); *Going on a bear hunt* (Track 26)