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](http://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

**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

**It’s iMaths Time CD tracks**
Track 23: *When Goldilocks went to the house of the bears*
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*.

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.

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.

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.

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**

- **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)

**Resources**

- **Props:** A3 envelope and written invitation
- **BLM:** 4.1

**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)

**Resources**

- **Props:** A3 paper, bread, butter, honey, breadboard, plastic knives, napkins
- **BLMs:** 4.3, 4.4 and 4.5

**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)