

Picking the Investigations you want to conduct in your class is easy with the *iMaths F Investigation Overview* document. Simply peruse the table below for a 'snapshot' of every Investigation in the year.

Investigation	About the Investigation	Duration	Group size	Students will need	Ideal for ...	Related learning area	ACARA Sub-strands
Investigation 1 Goodnight, sleep tight	In this Investigation, students will explore and compare daytime and night-time activities, before investigating the bedtimes and routines of their classmates. Familiar points in time, telling time, sequencing events, sorting and classifying are some of the mathematical concepts explored. By the end of this Investigation, students will have made their own clocks and put together a book about their bedtime routines.	2 weeks	N/A	<ul style="list-style-type: none"> • BLMs 1.1–1.5 • Tear-out 1 – <i>Time for bed</i> • variety of props and reading books 	Learning about time and what activities occur at certain times.	English, The Arts, Technologies	<ul style="list-style-type: none"> • Number and place value • Patterns and algebra • Using units of measurement • Data representation and interpretation
Investigation 2 Oz-animal Olympics	Fun and learning abound, as students become involved with an Oz-animal Olympics. Students will apply the concepts of counting, ordinal numbers, positional language and graphing as they negotiate, plan, participate in and collect and record data for their Oz-animal Olympics. This Investigation provides a perfect platform for students to explore and experience team sports, the concept of sportsmanship and to celebrate achievements in competitive events.	3 weeks	N/A	<ul style="list-style-type: none"> • BLMs 2.1–2.7 • Tear-out 2 – <i>Name tag</i> • variety of props 	The Olympics, or a more local sporting event e.g. regional sporting final or school sports day. Great for getting outdoors.	English, HPE	<ul style="list-style-type: none"> • Number and place value • Using units of measurement • Data representation and interpretation
Investigation 3 Happy Birthday Humpty	Birthdays are a special day for everyone and Humpty Dumpty's birthday is sure to be a great deal of fun. Students will explore, practise and consolidate early mathematical concepts of sequencing, time, and chance and data, as they help plan and host a birthday party at the King's request.	3 weeks	N/A	<ul style="list-style-type: none"> • BLMs 3.1–3.5 • Tear-out 3 – <i>Humpty Dumpty sequence</i> • Tear-out 4 – <i>Time of day 1</i> • Tear-out 5 – <i>Time of day 2</i> • variety of props 	The start of the year and learning the birthdays of other students.		<ul style="list-style-type: none"> • Number and place value • Using units of measurement • Data representation and interpretation
Investigation 4 Goldilocks	The classic fairytale, <i>Goldilocks and the Three Bears</i> , 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.	3 weeks	N/A	<ul style="list-style-type: none"> • BLMs 4.1–4.5 • Tear-outs 6 and 7 – <i>Sort and match</i> • Tear-out 8 – <i>Goldilocks sequence</i> • Tear-out 9 – <i>Halves</i> • variety of props 	Learning about other classic nursery rhymes. Great for encouraging collaboration between students and reinforcing the importance of sharing.	English	<ul style="list-style-type: none"> • Number and place value • Patterns and algebra • Fractions and decimals • Using units of measurement • Shape • Data representation and interpretation

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Investigation 5 Hopscotch	Students explore 2D shapes and number sequences as they play hopscotch and its many variations. Then, they will plan and create a hopscotch design of their own. Students' favourite designs will be drawn on cement and trialled by the class. This Investigation provides the perfect platform for students to practise gross motor skills in a collaborative manner.	3 weeks	N/A	<ul style="list-style-type: none"> • BLMs 5.1–5.2 • Tear-out 10 – <i>Missing numbers hopscotch</i> • Tear-out 11 – <i>Hopscotch</i> • variety of props 	The start of the year, learning to work with others, and for getting students outside the classroom.	HPE, Technologies	<ul style="list-style-type: none"> • Number and place value • Shape • Data representation and interpretation
Investigation 6 Take Ten	Students become artists and designers as they create a variety of 2D or 3D artworks for the Take Ten art exhibition. Key numeracy and geometry concepts are practised as students arrange, print or join 10 objects in different and creative ways.	3 weeks	N/A	<ul style="list-style-type: none"> • variety of props 	Any construction/ renovation work going on locally.	The Arts, Technologies	<ul style="list-style-type: none"> • Number and place value • Patterns and algebra • Shape
Investigation 7 The Wheels on the bus	Buses, trucks, cars and other vehicles are the context for this Investigation. Students will practise early numeracy concepts relating to counting, sorting collecting data and problem solving. Students compare vehicles and choose appropriate information in order to determine the best vehicle in different circumstances, and then explain their choices.	3 weeks	N/A	<ul style="list-style-type: none"> • BLMs 7.1–7.9 • variety of props 	Car and other vehicle shows/races. Learning about how cars/other vehicles are able to move.		<ul style="list-style-type: none"> • Number and place value • Patterns and algebra • Shape • Data representation and interpretation
Investigation 8 Animal rescue	Students answer a call for help from Australian animals who have lost their homes in a bushfire, creating a new bush habitat in their classroom for them. Early mapping skills are practised, as students mark out a track and describe the location of new bush home for an Aussie animal.	3 weeks	N/A	<ul style="list-style-type: none"> • BLMs 8.1–8.7 • Tear-out 12 – <i>We're going for a bushwalk</i> • Tear-out 13 – <i>Aussie animal sort</i> • Tear-out 14 – <i>Wildfire park</i> • variety of props 	Learning about Australian culture. In line with a trip to a local zoo. Also ideal for learning about seasons and Australian fauna.	Science, Geography, Technologies	<ul style="list-style-type: none"> • Number and place value • Patterns and algebra • Using units of measurement • Location and transformation
Investigation 9 Sandcastles	Students practise early concepts of mass and capacity as they work in pairs to build sandcastles and create a digital picture page for a class book. They will explore and play with a variety of containers and materials, using comparative and positional language. As this investigation is collaborative in nature, it also provides a natural setting in which to develop and practise social skills.	3 weeks	N/A	<ul style="list-style-type: none"> • BLMs 9.1–9.6 • Tear-out 15 – <i>Empty to full</i> • variety of props 	Getting to know people in the class at the start of the year, as the task is collaborative in nature.	Technologies	<ul style="list-style-type: none"> • Using units of measurement • Shape • Location and transformation

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Investigation 10 Zoo escape	Students create a miniature zoo and participate in creating a large class display of zoo animals. Identifying, sorting and labelling animal features are required for students to solve this Investigation. There are many opportunities for counting and problem solving activities throughout.	3 weeks	N/A	<ul style="list-style-type: none"> • BLMs 10.1–10.7 • variety of props 	Any trips to a local zoo. Significant animal shows etc.	English, Science	<ul style="list-style-type: none"> • Number and place value • Patterns and algebra • Using units of measurement • Data representation and interpretation
Investigation 11 Three Billy Goats Gruff	The classic fairytale, <i>Three Billy Goats Gruff</i> , provides a platform to explore and practise a variety of numeracy concepts, including ordinal numbers, comparing size, and early multiplication and division. Students investigate how the Three Billy Goats Gruff and their cousins – Bertie, Bobby and Buster – can equally share the delicious cabbages they find in the veggie patch on the other side of the bridge.	3 weeks	N/A	<ul style="list-style-type: none"> • BLMs 11.1–11.9 • variety of props 	Learning about other classic nursery rhymes, as well as equal sharing of resources.	English	<ul style="list-style-type: none"> • Number and place value • Using units of measurement • Location and transformation
Investigation 12 Froggy pond	Exploring pond life, and in particular frogs, provides a fun and fascinating context in which to practise sorting, measurement, addition and subtraction. Students also begin to develop early area concepts as they compare sizes of pond animals and calculate the number that could live in a given pond. Science and maths integrate perfectly in this investigation.	3 weeks	N/A	<ul style="list-style-type: none"> • BLMs 12.1–12.5 • variety of props 	Learning about comparative sizes of objects and things. Also great for learning about the life cycle of a frog.	Science	<ul style="list-style-type: none"> • Number and place value • Patterns and algebra • Using units of measurement • Data representation and interpretation