ABC Mathseeds

Real learning, real math, really fun!

USER GUIDE

Step-by-step instructions for how to use the teacher dashboard and student site.

ABC Reading eggs

Developed by a highly experienced team of teachers, educational writers, animators and web developers — the same team that created ABC Reading Eggs.

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1300 850 331

schools@mathseeds.com.au

www.mathseeds.com.au/schools

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How to Get Started

Welcome to ABC Mathseeds

This teacher's guide provides step-by-step instructions for how to use the teacher dashboard and student site.

A. Registration

If you haven't already registered for a free trial, you will need to call 1300 850 331 for a school code.
Once you have a school code, please sign up using the form at http://mathseeds.com.au/schools/getstarted.
Once you register for a free trial via this form, it will take to you directly to the teacher dashboard.
Please note: if you have a ABC Reading Eggs subscription or free trial, a tab will appear at the top of the screen to switch between ABC Reading Eggs and ABC Mathseeds.

If your school has subscribed to ABC Mathseeds and you are having trouble accessing the program, please contact your school's subscription coordinator or contact us at **1300 850 331** or **schools@mathseeds.com.au** for login information.

B. Teacher navigation menu

Once you have logged in to your account, you will arrive at the ABC Mathseeds Teacher Dashboard. From here you can access all the teacher features of ABC Mathseeds.

Teacher Toolkit

Find big books, posters, and additional printable lesson plans and worksheets.

Manage Class

Here you can add and remove students as well as print certificates and login details. You can also restrict students' access to the games and Playroom.

Lessons

Here you can preview all of the lessons in the Mathseeds program. You also have access to downloadable lesson plans and student worksheets for each lesson.

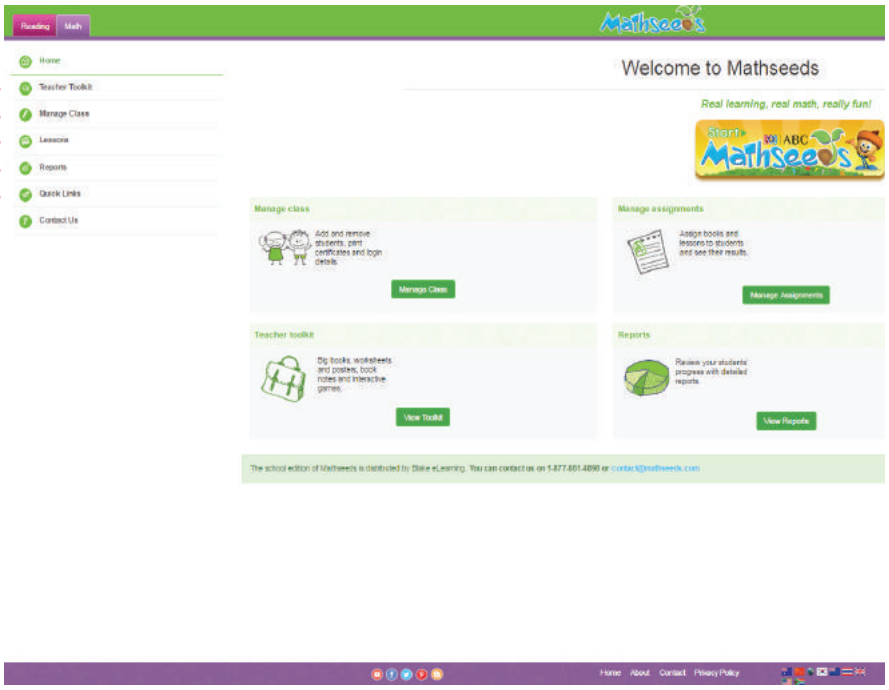
You can also manage classes and assign books and lessons to students from here, and view quiz results.

Report

Here you can access detailed reports of each student's progress as well as the overall results of your class's progress in the Mathseeds program.

Quick Links

Easy access to research reports that give a detailed review of the research that supports the program, curriculum maps, teacher guides and brochures, subscription order forms, and the "Tell a Colleague" function.



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Manage Class

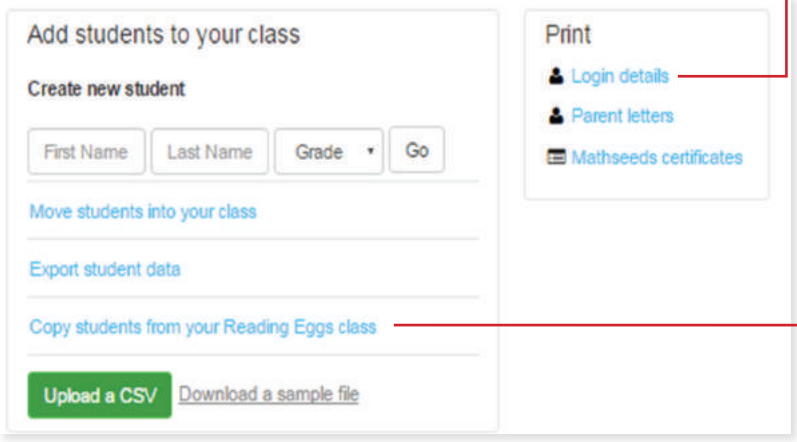
Once you have registered, simply add your students. This will give each student access to their account. Go to the left-hand navigational bar and click "Manage Class" in MANAGEMENT.

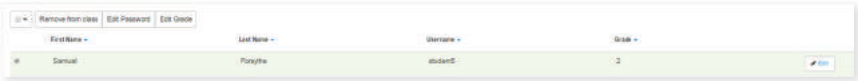
A. Adding students to your class

There are three ways you can add your students:

1. To add new students, enter their "First Name," "Last Name" and "Grade." Then click "Go."

2. To move students into your class from a different class in your school, click "Move students into your class." Then check the boxes next to the student's name and click "Add to my class."





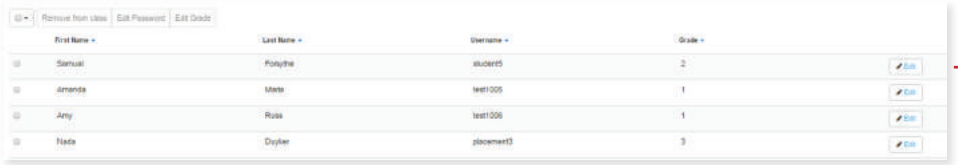
Did you know you can print student details? Once you have added all your students to your class, you can print their login details via a PDF to use in the classroom or hand out individual logins to students.

3. To copy students from your existing ABC Reading Eggs class (applies to those who have ABC Reading Eggs accounts), click "Copy students from your ABC Reading Eggs class."

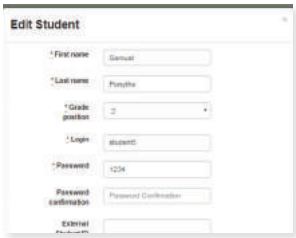
B. Editing individual students

Click "Edit" on the far right side of the coloumn.

Please note: to select your entire class, click here.



Simply edit all of the details below and click "Update Student."



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Manage Class

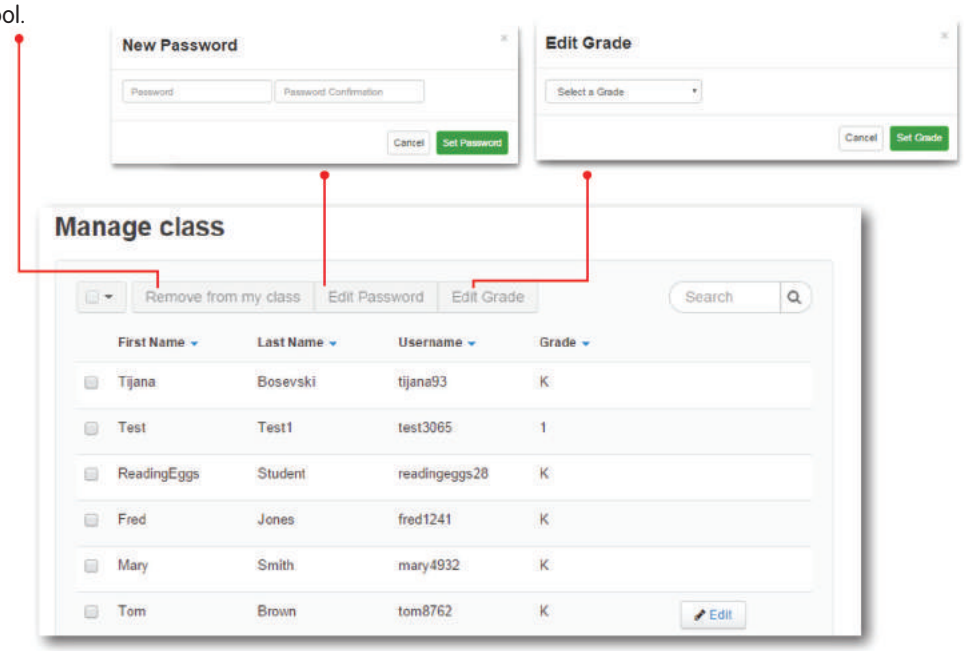
C. Editing multiple students

Select the students you wish to edit by checking the box next to the student's name. You can edit multiple students in three ways:

1. Remove from my class
Click this button to remove these students from your class. It will only remove them from your class and not the whole school.

2. Edit password
Click "Edit Password" to edit the passwords of multiple students.

2. Edit grade
Click "Edit Grade" to edit multiple students' grades. This tool will make it easier to move students to the next grade at the start of the school year.

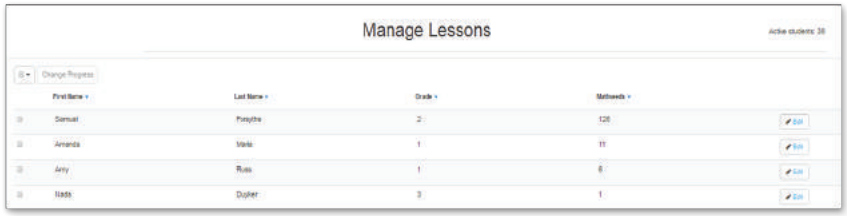


Manage Lessons

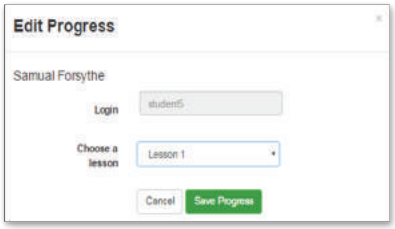
To manage your students' lessons, go to the left-hand navigational bar and click "Lessons." From the drop down menu, select "Manage Lessons."

A. Editing individual students

To edit an individual student's lesson, Click the "Edit" button next to their name.



Manage progress
Edit a student's details by clicking the "Edit" box next to their name. Then select a lesson and click "Save Progress."



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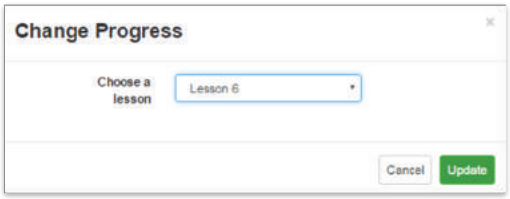
Manage Lessons

B. Editing multiple student's lessons

To edit multiple students' lessons, select the students you wish to edit by checking the box next to the student's name.

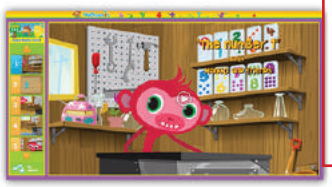
Click "Change Progress" to change multiple students' lessons. Select the lesson and click "Update."



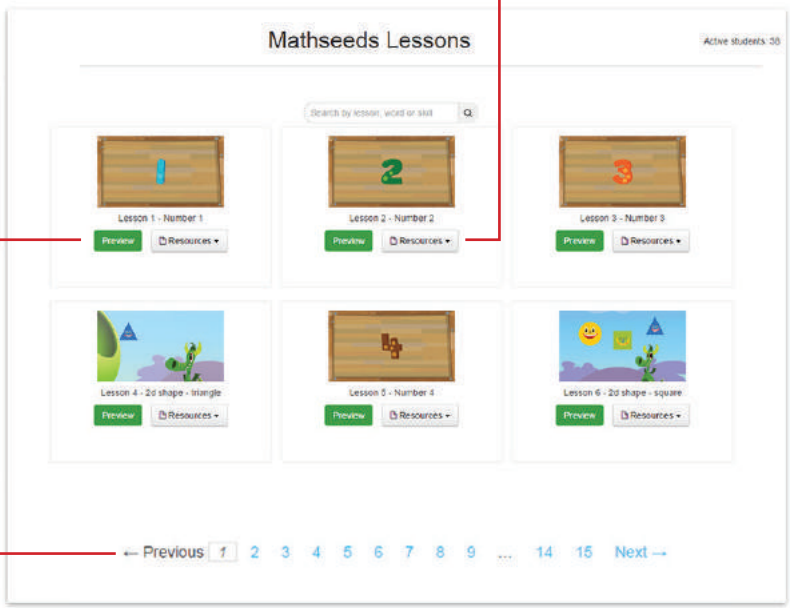
Preview Class

1. To preview Mathseeds lessons, go to the left-hand navigational bar and click "Lessons." From the drop down menu select "Preview Lessons."

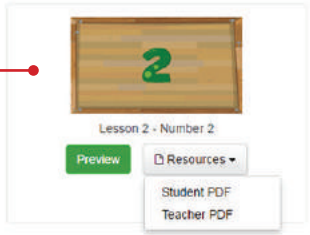
Click "Preview" and the lesson will begin as a student would see it.

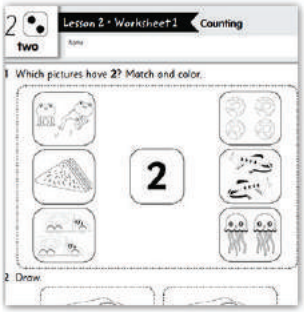


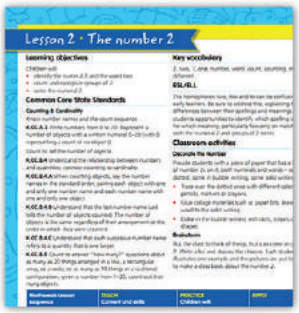
All Mathseeds lessons are available to preview. Simply scroll through the lessons using the menu at the bottom of the screen.



2. Click "Resources" to and choose between student and teacher lesson plan.







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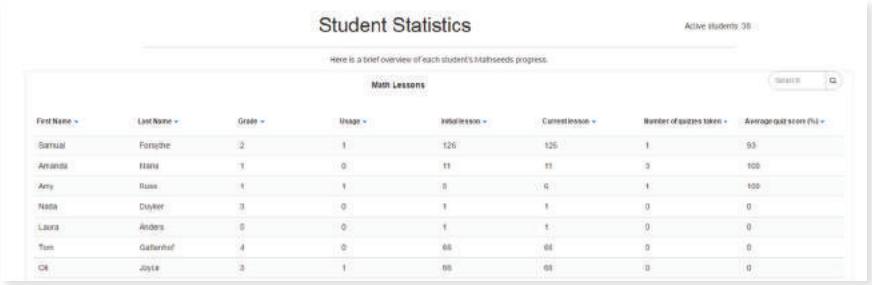
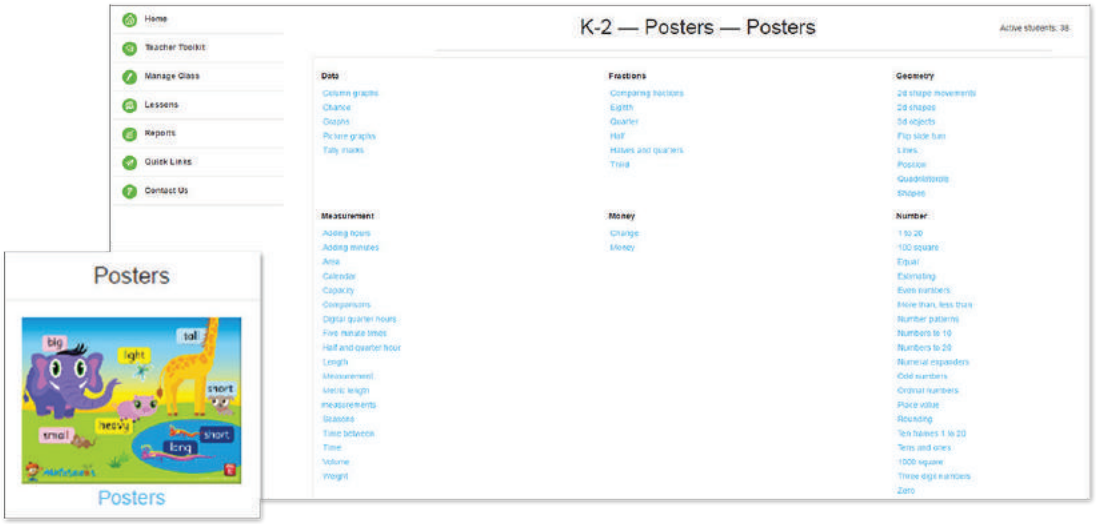
Student Statistics

To see your students' results, go to the left-hand navigational bar and click "Reports." From the drop-down menu click "Students Stats." This will show each student's results, including usage, initial lesson, current lesson, number of quizzes taken and average quiz score.



K-2 Teaching Resources

To see our current range of teaching resources, go to the left-hand navigational bar and click "Teacher Toolkit" and then select "K-2."



2. Then click on any of the blue links and the PDF will download.

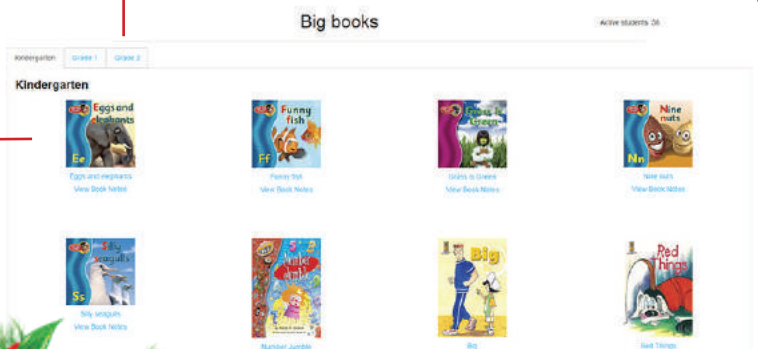
Addition Square

Big Books

To See our current range of digital big books, go to the left-hand navigational bar, click "Teacher Toolkit" and then select "Big Books."

Click on a big book and it will load through to our e-reader software. Click on the "Next" arrow to scroll through the pages

Click through the tabs to see the books available for each grade.



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Student Navigation

Lessons

This is the heart of the program, the Math lessons. Students progress through lessons as their math skills increase, earning golden acorns and pets as rewards!

Treehouse

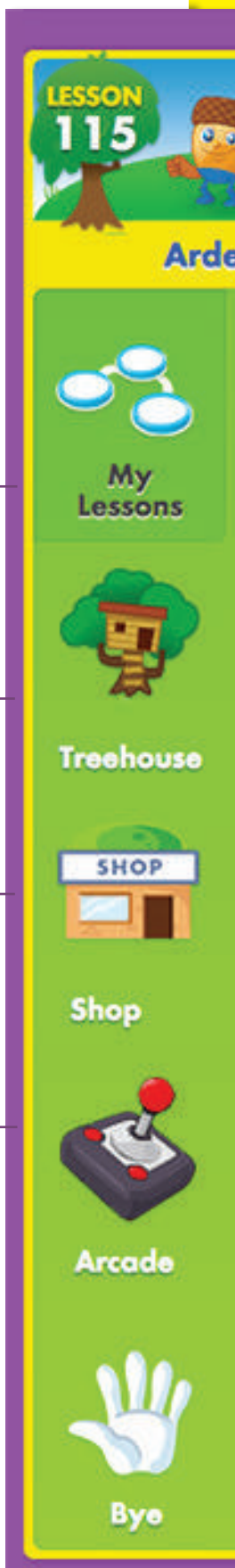
Each student can visit their Treehouse and find rewards earned or items bought from the shop. Students use these items to decorate their Treehouse.

Shop

Students can buy items from the shop using their golden acorns earned by completing lessons. These items can be used to decorate their Treehouse.

Arcade

Students can reward themselves by playing an arcade game. Each game cost 10 acorns



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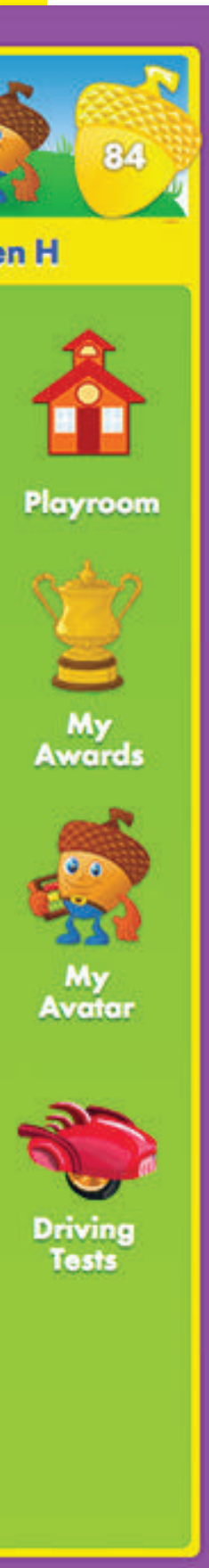
Student Navigation



Playroom

The playroom consists of seven sections with more than 120 activities. Students can access the playroom at any time simply by clicking on the Playroom icon.

My Awards

This is where the student certificates are located. Students can print their certificates to take home or display in the classroom.

My Avatar

Students can create their own unique avatar as they redeem golden acorns as a result of their hard work!

Driving Tests

More than 340 highly motivating tests assess students' skills and knowledge with a fun reward game!

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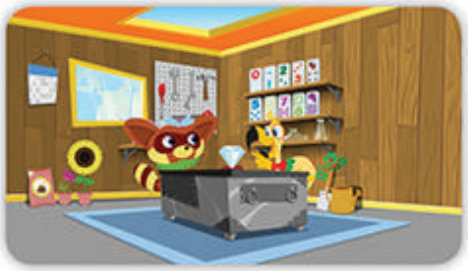
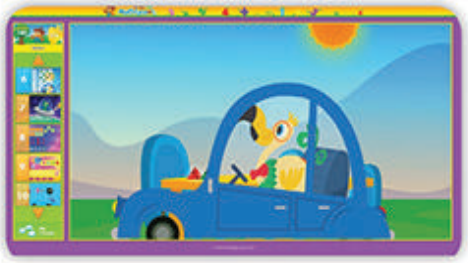
How ABC Mathseeds Lesson Work

1. Teaching Sequence
The Mathseeds characters explain the concept and discuss how to solve a problem.



2. Student Practice
Interactive screens give students the opportunity to practice new skills.

3. Mathseeds Songs
Many lessons include a memorable song that reinforces the new concept.



4. Mathseeds Activities
Every Mathseeds lesson includes a set of nine interactive activities, with more than 350 different activities within the program.

5. The E-book
Every lesson ends with a book that includes full audio support. These books restate the main lesson points and are designed to consolidate new concepts and skills.

6. Earning a Reward
Students earn golden acorns for all activities completed. As a bonus, a cute pet hatches at the end of every lesson. This pet appears on their map and they progress to the next lesson.

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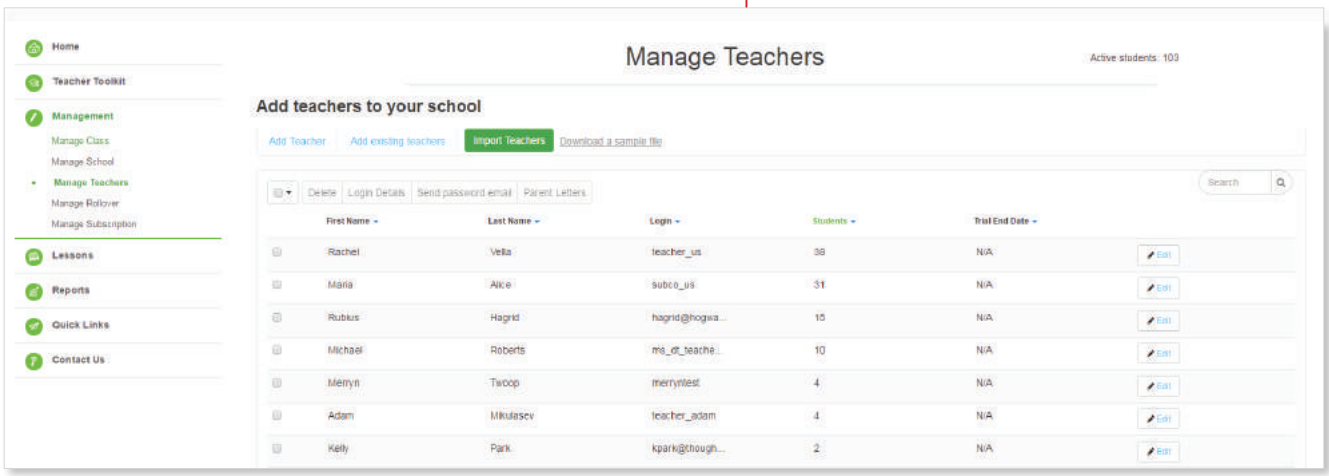
Manage Teachers

Mathseeds Guide (Subscription Coordinator)

This guide will demonstrate how to:

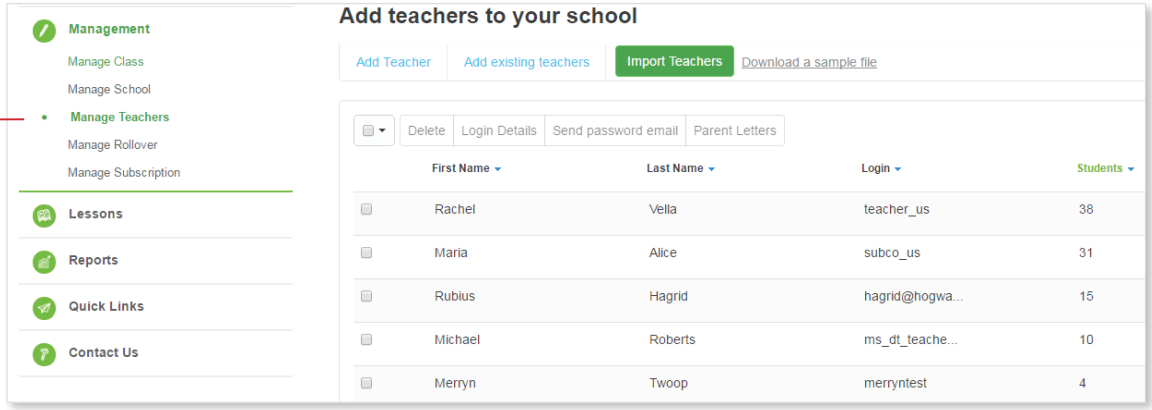
1. add teachers to your school
2. remove a teacher from your school
3. reset a password
4. edit teacher details

To manage all aspects relating to teacher accounts at your school, ensure you have selected the "Manage Teachers" options from the "Management" drop-down menu on the left-hand navigational bar.



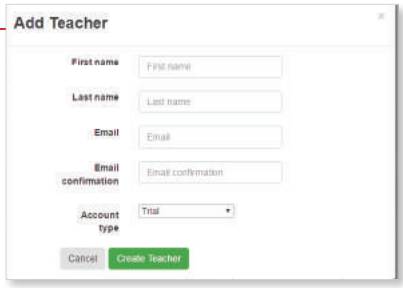
A. Add a Teacher

1. Click "Manage Teachers" from the left menu panel.



2. Enter the teacher's information

You will need to include their first and last name, email address, and account type. Their email address will become their username and they will receive an email that contains their login details.



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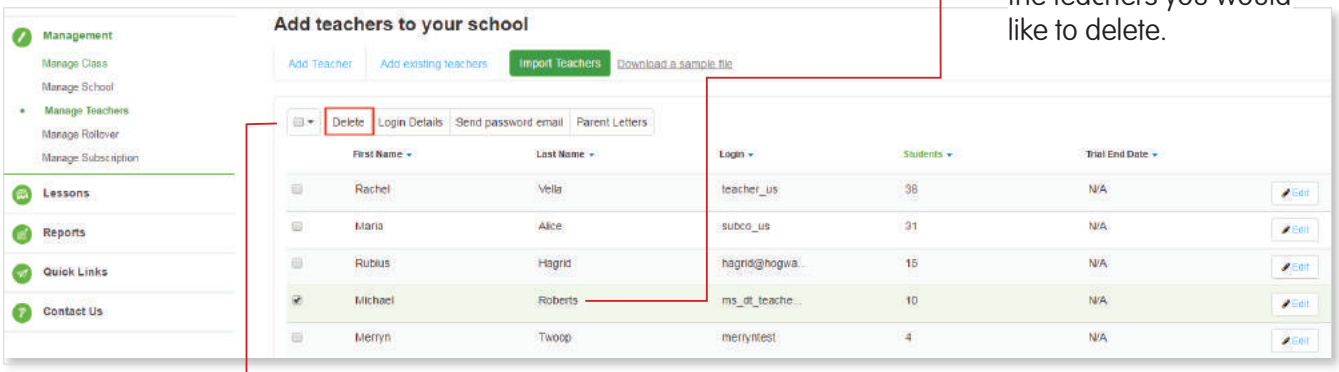
Manage Teachers

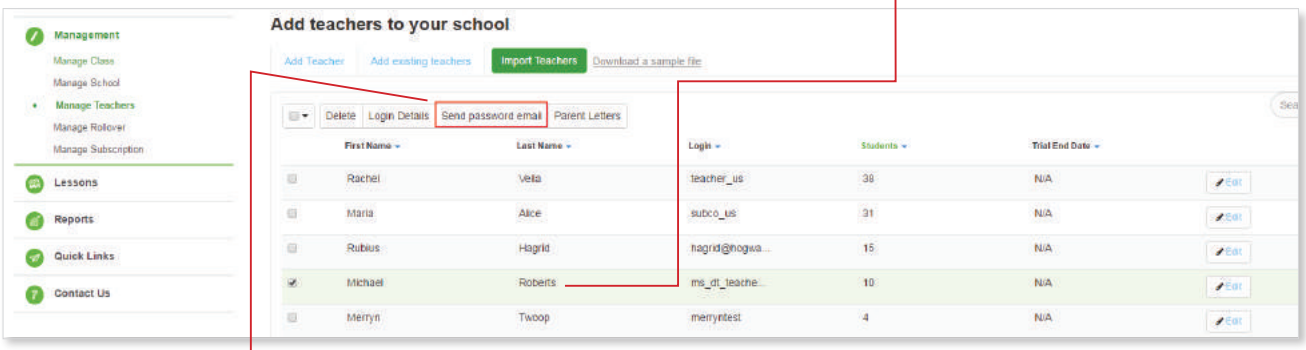
B. Delete a Teacher



1. From the Manage Teachers page, select the teachers you would like to delete.

2. Click "Delete" to permanently remove the teacher(s) from your school account.

C. Reset a Password



1. Select the teacher(s) who need their password(s) to be reset.

2. Click "Send password email." The teacher will receive an email with details for how to reset their password.

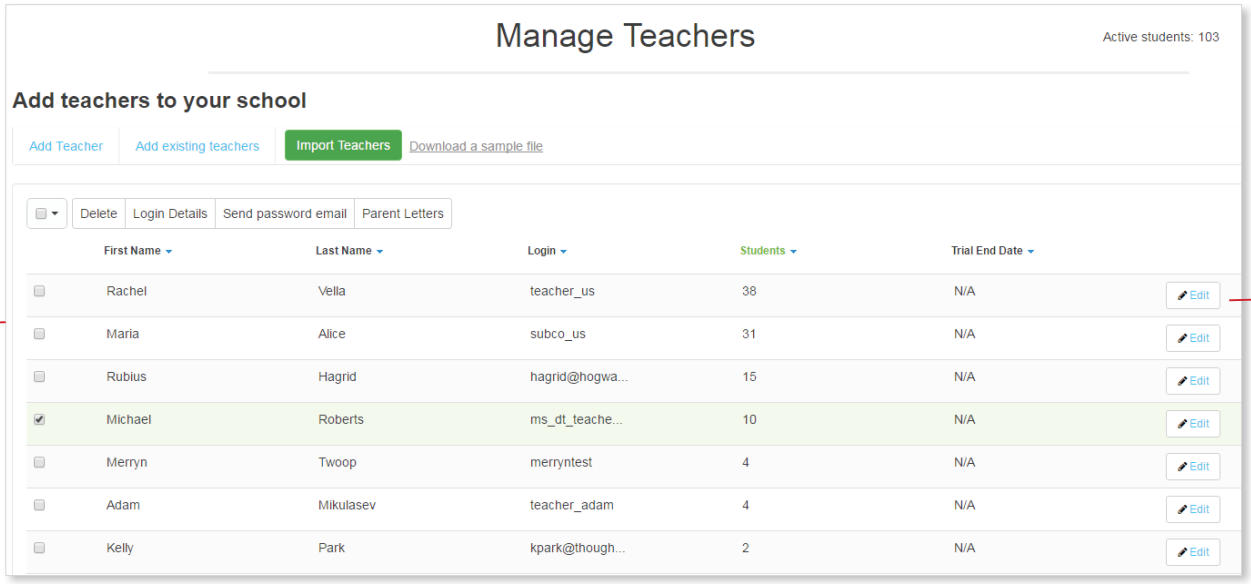
3. In order for your teachers to receive the password reset email, they must have a valid email address registered with their teacher account.

If you need to update a teacher's email address, go to the **Edit Teacher Details** section on the next page.

Manage Teachers

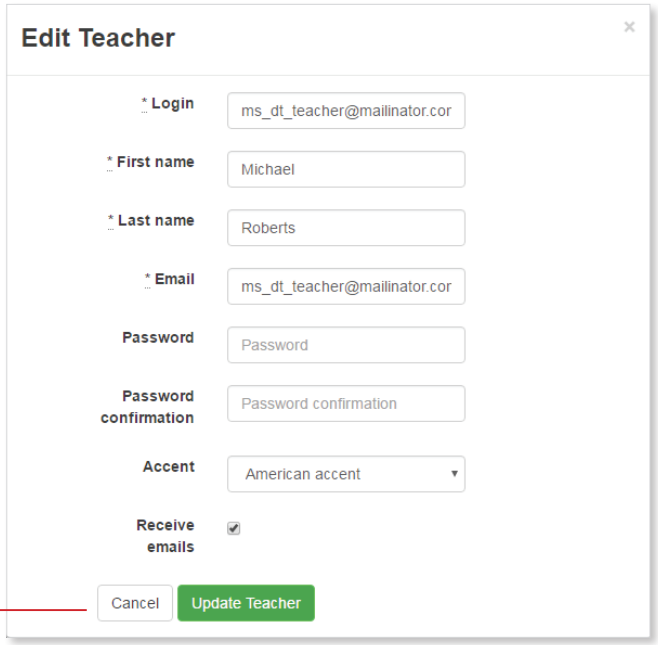
B. Edit Teacher Details

1. Find the teachers by typing their name in the search box or by browsing through your teacher list.



2. Click the "Edit" button that appears on the right.

3. Edit their details and click "Update Teacher."



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Content Overview

ABC Mathseeds
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Mathseeds Kindergarten: Lesson 1–50

Students learn fundamental number skills including number recognition, number words and counting. Students learn to count forwards and backwards to twenty with confidence. They use a range of techniques including ten frames and number lines. They also learn the number words up to twenty. Students learn to add to ten and their doubles facts to double five.

Students learn the four basic 2D shapes: circle, square, triangle and rectangle. They distinguish between colours and investigate some simple concepts of size: big, small, short, tall etc. Lessons cover the concepts of more time and less time, life cycles and days of the week. Students develop their understanding of 2D shapes by sorting them according to their properties. They are also introduced to the 3D shapes: sphere, cube, cone and cylinder.

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
K	1	Number 1	Number & Algebra	Count to 1. Know, read and write the numeral 1. Read the word one. Represent a number of objects with a written number.
K	2	Number 2	Number & Algebra	Count to 2. Know, read and write the numeral 2. Read the word two. Represent a number of objects with a written number.
K	3	Number 3	Number & Algebra	Count to 3. Know, read and write the numeral 3. Read the word three. Represent a number of objects with a written number.
K	4	Circles	Measurement & Geometry	Name circles in the environment. Sort shapes. Name circles in different orientations and sizes.
K	5	Number 4	Number & Algebra	Count to 4. Know, read and write the numeral 4. Read the word four. Represent a number of objects with a written number. Compare 4 to other numbers. Count to answer 'How many?' questions.
K	6	Squares	Measurement & Geometry	Name squares in the environment. Sort shapes. Name squares in different orientations and sizes.
K	7	Number 5	Number & Algebra	Count to 5. Know, read and write the numeral 5. Read the word five. Represent a number of objects with a written number. Compare 5 to other numbers. Connect counting to cardinality.
K	8	Colours	Number & Algebra	Copy, continue and create patterns with objects and drawings. Identify colours. Match objects to colour name. Identify colours when two primary colours are mixed.
K	9	Triangles	Measurement & Geometry	Name triangles in the environment. Sort shapes. Name triangles in different orientations and sizes.
K	10	Numbers 1-5 Revision	Number & Algebra	Count to 5. Know, read and write the numerals 1-5. Read the words: one, two, three, four, five. Represent a number of objects with a written number. Compare numbers. Connect counting to cardinality.
K	11	Number 6	Number & Algebra	Count to 6. Know, read and write the numeral 6. Read the word six. Represent a number of objects with a written number. Compare 6 to other numbers. Connect counting to cardinality.
K	12	Number 7	Number & Algebra	Count to 7. Know, read and write the numeral 7. Read the word seven. Represent a number of objects with a written number. Compare 7 to other numbers. Connect counting to cardinality. Count to answer 'How many?' questions.
K	13	Big and Small	Measurement & Geometry	Compare objects. Use measurement language to describe objects.
K	14	Number 8	Number & Algebra	Count to 8. Know, read and write the numeral 8. Read the word eight. Represent a number of objects with a written number. Compare 8 to other numbers. Connect counting to cardinality. Count to answer 'How many?' questions.
K	15	Rectangles	Measurement & Geometry	Name rectangles in the environment. Sort shapes. Name rectangles in different orientations and sizes.
K	16	Numbers 1-8	Number & Algebra	Count 1-8. Know, read and write the numerals 1-8. Read the words: three, five, seven, eight. Represent a number of objects with a written number. Compare numbers written as numerals. Connect counting to cardinality.
K	17	Number 9	Number & Algebra	Count to 9. Know, read and write the numeral 9. Read the word nine. Represent a number of objects with a written number. Compare 9 to other numbers. Connect counting to cardinality.

Content Overview

ABC Mathseeds
Real learning, real maths, really fun!

Mathseeds Kindergarten: Lesson 1–50

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
K	18	Zero, Ordering Numbers	Number & Algebra	Know, read and write the numeral 0. Read the word zero. Compare 0 to other numbers. Connect counting to cardinality. Count to answer 'How many?' questions. Compare numbers written as numerals. Sequence numbers, counting forwards.
K	19	Number 10	Number & Algebra	Count to 10. Know, read and write the numeral 10. Read the word ten. Compare 10 to other numbers. Connect counting to cardinality. Count to answer 'How many?' questions. Represent a number of objects with a written number.
K	20	Numbers 1-10 Revision	Number & Algebra	Count to 10. Know, read and write the numerals 1-10. Represent a number of objects with a written number. Compare numbers written as numerals. Sequence numbers, counting forwards and backwards.
K	21	Counting Back from 10	Number & Algebra	Count to 10. Know, read and write the numerals 1-10. Read the words: six, seven, ten. Compare groups of objects. Sequence numbers, counting backwards. Subitise small groups of objects in different formations.
K	22	More, Less and the Same	Number & Algebra	Count to 10. Know, read and write the numerals 1-10. Compare groups of objects. Use comparative language: more, less, the same. Sequence numbers, counting backwards.
K	23	2D Shapes	Measurement & Geometry	Name triangles, squares, rectangles and circles in the environment. Match and sort shapes. Name shapes in different orientations and sizes. Identify straight, wavy and zig-zag lines. Copy, continue and create patterns.
K	24	Adding to 5	Number & Algebra	Connect counting to addition. Model addition with objects. Write equations for addends to 5. Subitise small groups of objects in different formations.
K	25	Number Lines 1-10	Number & Algebra	Count to 10. Read number words to ten. Connect counting to cardinality. Sequence numbers, counting forwards and backwards. Find pairs of numbers that make 10. Count to answer 'How many?' questions.
K	26	Long and Short	Measurement & Geometry	Compare and order which is longer or shorter using everyday language. Use comparative language: big, small, short, tall, tallest, longest, shortest.
K	27	Patterns	Number & Algebra	Copy, continue and create patterns. Identify colours. Match objects to colour names.
K	28	Number Lines	Number & Algebra	Count to 10. Read number words to ten. Connect counting to cardinality. Sequence numbers, counting forwards and backwards. Count to answer 'How many?' questions. Subitise small groups of objects in different formations.
K	29	Heavy and Light	Measurement & Geometry	Compare and order which is heavier or lighter using everyday language. Use comparative language: big, small, heavy, light, heavier, lighter.
K	30	Adding to 6	Number & Algebra	Connect counting to addition. Model addition with objects. Write equations for addends to 6. Subitise small groups of objects in different formations.
K	31	Counting to 10	Number & Algebra	Sequence numbers, counting forwards and backwards. Estimate the quantity of items in a group. Compare groups of objects. Use comparative language: more, less, the same. Count to answer 'How many?' questions. Find pairs of numbers that make 10.
K	32	Add to 7	Number & Algebra	Connect counting to addition. Model addition with objects. Write equations for addends to 7. Compare groups of objects. Subitise small groups of objects in different formations.
K	33	Number Words to 10	Number & Algebra	Read the words: zero, one, two, three, four, five, six, seven, eight, nine, ten.
K	34	Add to 10	Number & Algebra	Connect counting to addition. Model addition with objects. Write equations for addends to 10. Find pairs of numbers that make 10. Subitise small groups of objects in different formations.
K	35	The Cube & Sphere	Measurement & Geometry	Name cubes and spheres in the environment. Match and sort cubes and spheres. Identify objects that can be stacked and those that roll.
K	36	Adding to 10	Number & Algebra	Connect counting to addition. Model addition with objects. Write equations for addends to 10. Find pairs of numbers that make 10.
K	37	Patterns 2	Number & Algebra	Copy, continue and create patterns.
K	38	Capacity	Measurement & Geometry	Use comparisons to decide which holds more or less. Use comparative language: full, empty, big, small, short, tall.
K	39	Time	Measurement & Geometry	Compare and order events using the everyday language of time.

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Mathseeds Kindergarten: Lesson 1–50

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
K	40	Add to 10 on a Number Line	Number & Algebra	Connect counting to addition. Add on a number line. Model addition with objects. Write equations for addends to 10. Find pairs of numbers that make 10.
K	41	Numbers 11 & 12	Number & Algebra	Count to 12. Know, read and write the numerals 11 & 12. Read number words to twelve. Represent a number of objects with a written number. Compare numbers. Connect counting to cardinality. Subitise small groups of objects in different formations.
K	42	Days of the Week	Measurement & Geometry	Connect days of the week to familiar events and actions.
K	43	Numbers 13, 14 & 15	Number & Algebra	Count to 15. Know, read and write the numerals 13, 14, 15. Read number words to fifteen. Represent a number of objects with a written number. Compare numbers. Connect counting to cardinality.
K	44	The Cone & Cylinder	Measurement & Geometry	Name cones and cylinders in the environment. Match and sort cones and cylinders. Name cones and cylinders in different sizes.
K	45	Numbers 16 & 17	Number & Algebra	Count to 17. Know, read and write the numerals 16 & 17. Read number words to seventeen. Represent a number of objects with a written number. Compose and decompose the numbers 11, 12, 13, 15 into tens and ones. Compare groups of objects. Use comparative language: more, less, the same.
K	46	Numbers 18, 19 & 20	Number & Algebra	Count to 20. Know, read and write numbers to 20. Read number words to twenty. Represent a number of objects with a written number. Compose and decompose the numbers 12, 14, 16, 19 into tens and ones. Compare groups of objects. Use comparative language: more, less, the same.
K	47	Number Lines to 20	Number & Algebra	Count to 20. Read number words to twenty. Sequence numbers, counting forwards and backwards. Count to answer 'How many?' questions. Connect counting to addition. Model addition for addends to 10.
K	48	Number Words 11-20	Number & Algebra	Count to 20. Read number words to twenty.
K	49	Doubles to Double 5	Number & Algebra	Connect counting to addition. Model addition. Write equations for addends to 10. Find pairs of numbers that make 10. Subitise small groups of objects in different formations.
K	50	Revision 0-20	Number & Algebra	Count to 20. Know, read and write numbers to 20. Read number words to twenty. Compose and decompose teen numbers into tens and ones. Use comparative language: smaller, larger. Sequence numbers, count forwards and backwards.

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Mathseeds Year 1: Lesson 51–100

Students learn to count to 100, order numbers and identify ordinal numbers to 10th. They develop an understanding of place value including regrouping. Students practice their subtraction skills. They add and subtract to 10, and then within 100. Strategies include counting on, counting back, near doubles and using number fact families. Students learn how to skip count by 2s, 5s and 10s, as well as the early multiplication and division skills of grouping and sharing.

Students identify notes and coins, and use addition to find amounts of money. They explore fractions, focusing on wholes, halves and quarters. Students continue to investigate the features of 2D shapes and 3D objects. They follow simple directions to a particular location and learn to read clocks to the half-hour. They work with early chance concepts, tally charts and simple picture graphs.

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
1	51	Addition to 10 with Two and Three groups	Number & Algebra	Solve addition of three whole numbers. Use the count on strategy. Represent numerals with objects to solve addition problems. Understand the equals sign and work out if addition equations are true or false.
1	52	Sorting and Grouping 2D Shapes	Measurement & Geometry	Recognise and classify familiar two-dimensional shapes. Compose two-dimensional shapes. Match two-dimensional shapes to their names. Identify shapes as two-dimensional or three-dimensional.
1	53	Subtraction 1	Number & Algebra	Solve subtraction problems using objects and equations. Represent objects with a written numeral to solve subtraction problems. Represent a written numeral with objects to solve subtraction problems.
1	54	O'clock	Measurement & Geometry	Tell and write time in hours and half-hours. Use analogue and digital clocks. Use comparative language: longer time, shorter time.
1	55	Near and Far	Measurement & Geometry	Compare and select which is longer or shorter. Sort objects according to height. Describe position and movement using the everyday language of location and direction. Use comparative language: near, far, behind, in front, on, next to, big, small, short, tall, longest, shortest.
1	56	Subtraction 2	Number & Algebra	Represent objects with a written numeral to solve subtraction problems. Represent a written numeral with objects to solve subtraction problems. Work out the unknown number in a subtraction equation. Find pairs of numbers that make 10.
1	57	Position 1	Measurement & Geometry	Follow directions to familiar locations. Understand position words when giving and following directions: right, left, above, below, next to, between, forward, under.
1	58	Subtraction on a Number Line	Number & Algebra	Solve subtraction problems using a number line. Represent objects with a written numeral to solve subtraction problems. Represent a written numeral with objects to solve subtraction problems. Work out the unknown number in a subtraction equation.
1	59	Area	Measurement & Geometry	Understand that area measures how much a surface covers. Sort objects according to height. Sort objects according to area. Compare to identify and order area. Count to measure area. Use comparative language: big, small, short, tall, largest, smallest.
1	60	Counting 20-30	Number & Algebra	Count to 30 starting at any number. Read and write numerals. Represent a number of objects with a written numeral. Compose two-digit numbers using tens and ones. Compare groups of objects. Use comparative language: larger, smaller.
1	61	Wholes and Halves	Number & Algebra	Partition objects into halves. Identify and colour one half of different 2D shapes. Recognise to share equalsly between two, each share is one half. Read fraction notation.
1	62	Sorting and Grouping 3D Objects	Measurement & Geometry	Identify shapes that stack. Identify shapes that roll. Identify shapes that slide. Name 3D objects. Identify the number of sides and corners on a 3D object.
1	63	Ordinal Numbers	Number & Algebra	Read and represent position using ordinal numbers in a sequence.
1	64	Money	Number & Algebra	Count and order money. Solve addition problems using coins. Solve addition problems involving money.

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Mathseeds Year 1: Lesson 51–100

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
1	65	Addition to 20	Number & Algebra	Solve addition of three whole numbers. Use the count on strategy. Solve addition problems using a number line. Solve addition problems by counting by twos. Compose numbers from 11 to 19 into tens and ones. Make number bonds for numbers to 20.
1	66	Halves and Quarters	Number & Algebra	Partition objects into halves and quarters. Identify and colour one half and one quarter of different 2D shapes. Recognise to share equalsly between two, three and four. Read fraction notation.
1	67	Counting 30-40	Number & Algebra	Count to 40 starting at any number. Read and write numerals. Represent a number of objects with a written numeral. Compose two-digit numbers using tens and ones. Make number bonds to 30 with three addends.
1	68	Find the Difference 1	Number & Algebra	Solve subtraction problems using find the difference. Represent objects with a written numeral to solve subtraction problems. Represent a written numeral with objects to solve subtraction problems. Work out the unknown number in a subtraction equation.
1	69	Putting Shapes Together	Measurement & Geometry	Compose two-dimensional shapes to create a composite shape. Compose three-dimensional objects to create a composite object.
1	70	O'clock & Half-Past	Measurement & Geometry	Tell and write time in hours and half-hours. Use analogue and digital clocks. Use comparative language: longer time, shorter time.
1	71	Sharing 1	Number & Algebra	Share a collection of objects into two, three, four or six equals groups.
1	72	Doubles to Double 10	Number & Algebra	Solve addition problems using doubles as a strategy. Compare groups of objects. Use comparative language: larger, smaller. Find pairs of numbers that make 10. Solve addition of three whole numbers. Make number bonds for numbers to 20.
1	73	Mass	Measurement & Geometry	Compare and order which is heavier or lighter. Use comparative language: heavy, heavier, heaviest, light, lighter, lightest, balance.
1	74	Grouping	Number & Algebra	Sort and describe a collection of objects as a group. Represent multiplication as groups through equals sharing. Identify collections with the same number of objects. Count out groups to answer 'How many?' questions. Skip count to find the total.
1	75	Counting 40-50	Number & Algebra	Count to 50 starting at any number. Read and write numerals. Compose two-digit numbers using tens and ones. Make number bonds for numbers to 20. Make number bonds to 30 with three addends.
1	76	The Equals Sign	Number & Algebra	Understand the equals sign. Work out if an equation using an equals sign is true or false. Make number bonds for numbers to 20.
1	77	Skip Counting by 2s & 5s	Number & Algebra	Solve problems counting by twos and fives. Solve problems on the number line counting by twos and fives. Find groups of two. Count out groups to answer 'How many?' questions.
1	78	Position 2	Measurement & Geometry	Follow directions to familiar locations. Understand position words when giving and following directions: right, left, above, below, next to, between, forward, under.
1	79	Counting by 10s	Number & Algebra	Sort objects into groups of ten. Recognise ten as a bundle of ten ones. Skip count by tens. Compose two-digit numbers using tens and ones. Count and create collections by partitioning numbers using place value.
1	80	Data 1	Statistics & Probability	Represent data with objects and drawings. Sort data and represent using tally marks. Understand one-to-one correspondence. Answer questions about data.
1	81	Counting 50-70	Number & Algebra	Count to 70 starting at any number. Read and write numerals. Order numbers on a number line. Order numbers on a number chart. Compare groups of objects. Use comparative language: larger, smaller. Count and create collections by partitioning numbers using place value.
1	82	Chance 1	Statistics & Probability	Identify outcomes of familiar events. Use everyday chance language: will happen, won't happen, might happen, possible, impossible. Use comparative language: more likely, less likely.
1	83	Money 2	Number & Algebra	Solve addition problems involving money. Identify coins and notes. Match money to symbols: $, c. Compare the cost of items. Use different denominations of notes and coins to make amounts. Solve subtraction problems requiring change.
1	84	Measuring Length	Measurement & Geometry	Compare and select which is longer or shorter. Measure and compare the lengths of pairs of objects using uniform informal units. Sort objects according to length. Use comparative language: longer, longest, shorter, shortest.

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Mathseeds Year 1: Lesson 51–100

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
1	85	Find the Difference 2	Number & Algebra	Solve subtraction problems using find the difference. Represent objects with a written numeral to solve subtraction problems. Solve subtraction problems using a number line. Represent a written numeral with objects to solve subtraction problems. Work out the unknown number in a subtraction equation.
1	86	Counting 70-100	Number & Algebra	Count to 100 starting at any number. Read and write numerals. Order numbers on a number line. Order numbers on a number chart. Compare groups of objects. Use comparative language: larger, smaller. Understand the meaning of the equals sign to determine true or false.
1	87	Half-Past and Digital Time	Measurement & Geometry	Tell and write time in hours and half-hours. Use analogue and digital clocks.
1	88	Trading Tens	Number & Algebra	Sort objects into groups of ten. Recognise ten as a bundle of ten ones. Compose two-digit numbers using tens and ones. Count and create collections by partitioning numbers using place value. Order numbers on a number chart.
1	89	Capacity 2	Measurement & Geometry	Use comparisons to decide which holds more or less. Use comparative language: empty, full, least, most. Compare capacities using a range of containers. Measure the capacity of a container using informal units.
1	90	Skip Counting	Number & Algebra	Skip count by twos and fives. Make number bonds for numbers to 20. Solve problems for the addition of three whole numbers. Use repeated addition to model and answer multiplication questions.
1	91	Near Doubles to 20	Number & Algebra	Solve addition problems using the near doubles strategy. Use add to ten first as an addition strategy. Skip count by fives. Find different sums that add to make the same number. Solve addition of three whole numbers. Make number bonds for numbers to 20. Count and create numbers by partitioning numbers using place value.
1	92	Change from $20	Number & Algebra	Solve addition problems involving money. Identify coins and notes. Match money using symbols: $, c. Compare the cost of items. Use different denominations of notes and coins to make amounts. Solve subtraction problems requiring change.
1	93	Number Fact Families	Number & Algebra	Solve problems using the commutative property of addition. Fluently add to 10. Recognise different number combinations that make number fact families. Understand the equals sign. Work out if addition equations are true or false. Subitise small groups of objects in different formations.
1	94	Position 3	Measurement & Geometry	Follow directions to familiar locations. Understand position words when giving and following directions: right, left, above, below, beneath, underneath, on top of, next to, between, beside, forward, under, clockwise, anticlockwise.
1	95	Add Within 100	Number & Algebra	Add a two-digit number and a one-digit number. Use strategies based on place value. Add two-digit numbers requiring sometimes to compose a ten. Add on a number line. Order numbers on a number chart. Solve addition problems using counting on as a strategy. Solve word problems using addition. Add multiples of ten to a two-digit number. Recognise different number combinations that make number fact families.
1	96	Bridging to Ten	Number & Algebra	Solve addition problems using the bridge to ten strategy. Solve addition problems using a number line. Write equations to solve addition problems. Understand the equals sign. Work out if addition equations are true or false. Use comparative language: larger, smaller. Solve addition problems using the jump strategy. Add multiples of ten to a two-digit number.
1	97	Data 2	Statistics & Probability	Represent data with objects and drawings. Sort data and represent using tally marks. Understand one-to-one correspondence. Answer questions about data.
1	98	Add and Subtract Tens	Number & Algebra	Add and subtract multiples of ten to a two-digit number. Add and subtract on a number line. Add and subtract using a numbers chart. Understand the equals sign. Work out if addition equations are true or false. Solve addition problems by using the count on strategy. Subitise small groups of objects in different formations.
1	99	3D Objects	Measurement & Geometry	Recognise and sort two-dimensional shapes that are the faces of three-dimensional objects. Identify prisms. Identify faces of prisms. Recognise features of prisms. Identify objects shaped as prisms.
1	100	Subtracting Unknown Numbers	Number & Algebra	Find the unknown number in a subtraction equation. Solve problems using the commutative property of addition. Fluently add to 10. Recognise different number combinations that make number fact families. Solve subtraction problems by using the count on strategy. Solve subtraction problems requiring change.

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Mathseeds Year 1: Lesson 51–100

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
1	97	Data 2	Statistics & Probability	Represent data with objects and drawings. Sort data and represent using tally marks. Understand one-to-one correspondence. Answer questions about data.
1	98	Add and Subtract Tens	Number & Algebra	Add and subtract multiples of ten to a two-digit number. Add and subtract on a number line. Add and subtract using a numbers chart. Understand the equals sign. Work out if addition equations are true or false. Solve addition problems by using the count on strategy. Subitise small groups of objects in different formations.
1	99	3D Objects	Measurement & Geometry	Recognise and sort two-dimensional shapes that are the faces of three-dimensional objects. Identify prisms. Identify faces of prisms. Recognise features of prisms. Identify objects shaped as prisms.
1	100	Subtracting Unknown Numbers	Number & Algebra	Find the unknown number in a subtraction equation. Solve problems using the commutative property of addition. Fluently add to 10. Recognise different number combinations that make number fact families. Solve subtraction problems by using the count on strategy. Solve subtraction problems requiring change.

Content Overview

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Mathseeds Year 2: Lesson 101–150

Students learn to count to 1000, identify odd and even numbers and round to the nearest 10 and 100. They build their place value skills, composing and decomposing numbers to 999. Students develop addition and subtraction strategies including the 'jump' and 'split' methods, as well as vertical addition and subtraction. Students practice grouping and sharing, and use the multiplication and division signs. They learn how to find a fraction of a collection of items.

Students investigate length and learn how to measure in metres and centimetres. They work with 2D shapes, make patterns that move and reflect, and study the features of 3D objects. Students tell time to the nearest 5 minutes and use a calendar to identify particular dates. They construct tally charts and picture graphs, and interpret data in a variety of ways.

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
2	101	Counting 100-500	Number & Algebra	Read and write numbers to 500. Count to 500 using base-ten numerals, number names, and expanded form. Know three-digit numbers represent amounts of hundreds, tens, and ones. Add 1, 10 or 100 to a given number 100-900. Subtract 1, 10 or 100 from a given number 100-900.
2	102	Moving Shapes	Measurement & Geometry	Understand the effect of one-step slides, flips and turns. Know that moved objects do not alter size or features. Identify a quarter and half turn. Tessellate shapes.
2	103	Adding 9	Number & Algebra	Use the jump strategy to add 9 to numbers. Understand the equals sign. Work out if addition equations are true or false. Subitise small groups of objects in different formations.
2	104	Measuring	Measurement & Geometry	Estimate lengths using metres. Measure lengths using metres. Compare lengths. Use comparative language: more than 1m; 1m; less than 1m.
2	105	Partitioning Numbers to 1000	Number & Algebra	Read and write numbers to 500. Count to 500 using base-ten numerals, number names, and expanded form. Know three-digit numbers represent amounts of hundreds, tens, and ones. Compose and decompose two- and three-digit numbers using tens and ones.
2	106	Counting 500-1000	Number & Algebra	Count within 1000. Skip-count by 100s. Add 1, 10 or 100 to a given number 100-900. Subtract 1, 10 or 100 from a given number 100-900. Use a number square to help skip count by 5s.
2	107	Chance 2	Statistics & Probability	Identify outcomes of familiar events involving chance. Use everyday chance language: will happen, won't happen, might happen, possible, impossible. Use comparative language: more likely, less likely.
2	108	Odd and Even Numbers	Number & Algebra	Determine if a number is odd or even. Use rules to add odd and even numbers.
2	109	The Calendar	Measurement & Geometry	Use a calendar to identify the date. Determine the number of days in each month. Sequence months of the year. Countdown to dates using a calendar. Sequence days of the week.
2	110	Take Away by Partitioning	Number & Algebra	Solve subtraction problems using the jump strategy. Fluently subtract within 30. Use place value to partition numbers to solve subtraction problems. Solve subtraction word problems. Subtract multiples of ten from a two-digit number.
2	111	Sharing 2	Number & Algebra	Share a collection of objects into two, three, four or six equals groups. Arrange groups into arrays. Use addition to find the total number of objects in arrays. Count groups of objects.
2	112	Area 2	Measurement & Geometry	Understand that area measures how much a surface covers. Sort objects according to height. Sort objects according to area. Use informal measurement to count area. Compare to identify and order which is larger or smaller.
2	113	Grouping 2	Number & Algebra	Count groups of objects. Recognise grouping as repeated addition. Use a number line to skip count. Write an equation to show the total as a sum of equals addends. Solve word problems by grouping and counting.
2	114	Quarter to and Quarter after	Measurement & Geometry	Tell time to the quarter-hour. Use language of time: quarter past, quarter to. Recognise the position of clock hands when showing quarter to or quarter past. Sequence months of the year. Countdown to dates using a calendar. Sequence days of the week.
2	115	Multiplying Groups	Number & Algebra	Recognise multiplication as repeated addition, groups and arrays. Write an equation using signs: ×, =. Use language of multiplication: groups of, multiply. Multiply groups by 1, 2, 3, 4, 5.

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Mathseeds Year 2: Lesson 101–150

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
2	116	Volume	Measurement & Geometry	Recognise volume as how much space. Use comparative language: less, more, big, bigger, biggest, small, smaller, smallest. Informally measure volume. Record informal measurements for volume.
2	117	Skip Counting Patterns	Number & Algebra	Skip count forwards and backwards by threes, fives, tens, hundreds.
2	118	Word Problems: + and –	Number & Algebra	Solve addition word problems. Solve subtraction word problems.
2	119	The Rhombus	Measurement & Geometry	Name rhombuses in the environment. Sort shapes. Name rhombuses in different orientations and sizes. Identify parallel lines. Compose two-dimensional shapes to create a composite shape. Identify properties of 2D and 3D shapes.
2	120	Addition 1	Number & Algebra	Solve addition problems using the jump strategy and skip counting. Fluently subtract within 30. Use place value to partition numbers to solve addition problems. Solve addition word problems. Add multiples of ten to a two-digit number.
2	121	Different Views of 3D Objects	Measurement & Geometry	Recognise the top, front, side and base of 3D objects. Identify and count the numbers of vertices.
2	122	Comparing Numbers	Number & Algebra	Use < = > symbols. Compare pairs of numbers starting with a single-digit and building to 2-digit and 3-digit numbers.
2	123	5 Minute Intervals	Measurement & Geometry	Understand that there are 60 minutes in an hour, and that there are 5 minute intervals between numbers. Match the time on an analogue clock to a digital time shown in 5 minute intervals.
2	124	Subtraction Algorithm	Number & Algebra	Use vertical subtraction. Subtract two single-digit numbers with no regrouping and subtract a single-digit number from a double digit number with no regrouping.
2	125	Equivalent Amounts of Money	Number & Algebra	Match amounts with equivalent coins. Use 2 coins, 3 coins and 4 coins.
2	126	Measuring Centimetres	Measurement & Geometry	Use the centimetre as a formal unit of measure. Measure an object twice using informal units and centimetres, and measure to determine how much longer one item is than another.
2	127	Elapsed Time	Measurement & Geometry	Calculate how much time has elapsed between 2 specific times to the hour and half hour.
2	128	Addition 2	Number & Algebra	Use vertical addition. Add two 2-digit numbers with no regrouping and add 2 three-digit numbers with no regrouping.
2	129	Rounding Numbers	Number & Algebra	Use a number line. Identify the 'midpoint' and round numbers within 100 up or down to the nearest ten.
2	130	Word Problems: Multiplication	Number & Algebra	Introduce multiplication word problems that use the strategy of 'creating a picture'.
2	131	Word problems: Working Backwards	Number & Algebra	Work backwards to solve a word problem. Use addition and subtraction number sentences.
2	132	Fractions	Number & Algebra	Revise halves and quarters, and introduce the term 'eighths'. Identify items that have been cut into equals halves, quarters and eighths.
2	133	Number Patterns 1	Number & Algebra	Identify a pattern in order to complete a number pattern: +2 pattern, –10 pattern, +100 pattern. Presented as word problems.
2	134	Subtract 3-digit Numbers	Number & Algebra	Practice vertical subtraction. Subtract two 2-digit numbers with no regrouping. Subtract two 3-digit numbers with no regrouping.
2	135	Comparing Mass	Measurement & Geometry	Use non-standard units to measure the mass of different items. Count the units using tally marks. Present the information as a picture graph and interpret the graph.
2	136	The Division Sign	Number & Algebra	Use the division sign. Share items between groups and divide using a number line.
2	137	Word Problems: Make a Table	Number & Algebra	Solve a word problem by organising information in a table.
2	138	Finding Fractions of a Collection	Number & Algebra	Investigate a half, third, quarter and eighth of a share. Understand that the denominator tells you how many groups to make.
2	139	2-Step Problem Solving	Number & Algebra	Break a word problem into 2 separate sums. Focus on just addition, addition and subtraction sums, and just subtraction.

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Mathseeds Year 2: Lesson 101–150

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
2	140	Revision	Number & Algebra	Revise vertical addition and subtraction, grouping and fractions. Identify the properties of 2D shapes and 3D objects. Measure length in cm, match analogue and digital times and compare area in square units. Interpret picture graphs.
2	141	Word Problems: Length	Measurement & Geometry	Solve multi-step word problems involving length using a range of addition and subtraction strategies. These include creating a picture to find the difference, using a number line, mentally counting on by tens and exploring related number facts.
2	142	Fluent Facts within 20	Number & Algebra	Use number bonds to 10 and then to 20 to fluently complete addition equations. Apply knowledge of related addition and subtraction number facts to solve subtraction equations within 20.
2	143	Comparing Lengths using Data	Statistics & Probability	Measure different lengths in metres and construct a bar graph to show the results. Interpret the bar graph to answer questions.
2	144	Adding within 1000	Number & Algebra	Explore 3 different strategies to add two 3-digit numbers: use base 10 equipment to decompose and compose numbers; use vertical addition; use a number line.
2	145	Quadrilaterals	Measurement & Geometry	Understand that shapes with 4 sides are called quadrilaterals. Identify quadrilaterals from a range of shapes. Identify how many sets of parallel lines a shape has and determine if it is a quadrilateral.
2	146	Subtracting within 1000	Number & Algebra	Explore 3 different strategies to subtract two 3-digit numbers: use base 10 equipment to decompose and compose numbers; use vertical subtraction; use a number line.
2	147	Word Problems: Money	Number & Algebra	Solve multi-step word problems that involve adding the cost of three items to find the total; determining how much more money is needed to buy an item; adding the cost of three items and giving change from $5.
2	148	Mentally Adding and Subtracting	Number & Algebra	Use strategies to mentally add and subtract 10 or 100 to or from a given number 100-900.
2	149	Area of Rectangles	Measurement & Geometry	Revision of area. Partition rectangles into square units; count square units to measure area; compare the areas of 2 shapes; create shapes based on a given area.
2	150	Adding and Subtracting 4-digit Numbers	Number & Algebra	Add and subtract up to four 2-digit numbers using a variety of strategies including vertical algorithms, number lines and related number facts.

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Mathseeds Year 3: Lesson 151–200

Students learn to count to 10 000, using place value to order numbers. They explore number patterns created by adding and subtracting, including the Fibonacci Sequence. Students begin to learn the times tables, aiming to know all products of two single-digit numbers by the end of year 3. They also learn about the parts of a fraction and explore how fractions relate to each other.

Students investigate symmetry and area in 2D shapes and in real world contexts. They measure liquids in litres and millilitres, time in minutes, and mass in grams and kilograms. They recognise notes and coins, and find equivalent amounts of money and correct change.

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
3	151	Counting 1000–5000	Number & Algebra	Order numbers on a number line, counting forwards and backwards in thousands, hundreds and tens. Order numbers from smallest to largest.
3	152	Symmetry	Measurement & Geometry	Explore vertical and horizontal lines of symmetry. Identify images in the environment that are symmetrical.
3	153	Number Patterns 2	Number & Algebra	Identify addition and subtraction number patterns. Explore the Fibonacci Sequence and follow a rule to create a number pattern. Identify the rule to create a number pattern.
3	154	Litres & Millilitres	Measurement & Geometry	Introduce the litre and millilitre as units of measure. Understand that 1 L = 1 litre and 1 ml = 1 millilitre, and that 1 L = 1000 ml. Determine if a vessel holds more than, less than or is equal to 1 L. Read increments on measuring jugs in litres and millilitres to determine the amount of liquid there is.
3	155	Multiplication Revision	Number & Algebra	Revise multiplication strategies including repeated addition, grouping items together and using the multiplication sign in a number sentence. Solve multiplication word problems using the 'create a picture' strategy to help visualise the problem.
3	156	Counting 5000–10 000	Number & Algebra	Model a number using base 10 equipment and match the number to its name. Place numbers on a number line and count forwards and backwards in thousands, hundreds and tens. Add +1, +10, +100 to a number.
3	157	Area 3	Measurement & Geometry	Count squares to measure area. Multiply the number of squares (length) by the number of squares (width). Multiply length x width to find the area in m^2.
3	158	Times Tables: x2, x4	Number & Algebra	Explore the ×2, ×4 tables. Identify patterns in a hundred chart and understand that 2 × 2 means two groups of two.
3	159	Money: Equivalent Amounts 2	Number & Algebra	Count collections of coins and notes to determine the value. Understand that the same amount can be presented in different combinations of currency. Match different currency combinations to a given amount. Find the correct change combinations from a given amount up to $50.
3	160	Comparing & Ordering Fractions	Number & Algebra	Understand the role of the top and bottom numbers in a fraction, and use the term 'denominator'. Compare the sizes of fractions, including mixed numbers up to 2. Order simple fractions and mixed numbers on a number line. Fractions used: $\frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}, \frac{1}{8}$.
3	161	Partitioning Numbers	Number & Algebra	Use place value to partition and rearrange numbers up to 9999. Recognise the value of each digit in 4-digit numbers. Increase the value of numbers by addition, and compare values using mathematical symbols.
3	162	Time to the Minute	Measurement & Geometry	Recognise that there are 60 minutes in an hour, and tell time to the nearest minute.
3	163	Equivalent Number Sentences	Number & Algebra	Explore the connection between addition and subtraction using wholes and parts, related number facts and equivalent number sentences.
3	164	Maps	Measurement & Geometry	Identify features and places on a simple map using basic coordinates and compass directions.
3	165	Division	Number & Algebra	Revision of grouping and sharing using the division sign and related number facts.
3	166	Odd & Even Numbers 2	Number & Algebra	Identify odd and even numbers using skip counting by twos on number lines and charts. Explore odd and even number patterns.
3	167	Chance 3	Statistics & Probability	Investigate different chance experiments. Identify outcomes and possibilities and record results.

Content Overview

ABC Mathseeds
Real learning, real maths, really fun!

Mathseeds Year 3: Lesson 151–200

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
3	168	Multiplication Word Problems 2	Number & Algebra	Use multiplication facts and related number facts to solve a variety of word problems. Explore the use of different strategies to solve problems.
3	169	Prisms and Pyramids	Measurement & Geometry	Identify prisms and pyramids and describe their key features.
3	170	Addition 3	Number & Algebra	Use vertical addition. Add two 3-digit numbers and introduce regrouping.
3	171	Times Tables 2: x8	Number & Algebra	Explore the 4x and 8x tables. Identify number patterns and investigate the associative property of multiplication.
3	172	Kilograms & Grams	Measurement & Geometry	Measure and compare the mass of objects using grams and kilograms. Use a range of operations to solve one-step word problems involving mass.
3	173	Mental + - Strategies	Number & Algebra	Use the compensation strategy to add and subtract numbers mentally.
3	174	Data 3	Statistics & Probability	Collect data and draw a scaled picture graph. Solve one-step and two-step questions by interpreting the information presented in the graph.
3	175	Comparing Fractions of a Collection	Number & Algebra	Investigate a half, a quarter, a third, a fifth and a tenth of a share. Understand that the denominator tells you how many groups to make. Compare quantities by comparing unit fractions with different denominators.
3	176	Times Tables 3: Mental Facts	Number & Algebra	Explore times tables, including the 3x and 6x tables. Identify number patterns and investigate the distributive property of multiplication.
3	177	Angles	Measurement & Geometry	Understand that angles are properties of 2D shapes and measures of turn. Identify angles in the environment and compare their sizes.
3	178	Subtraction with Regrouping	Number & Algebra	Apply place value to subtract two 3-digit numbers. Use a variety of strategies to demonstrate regrouping when subtracting.
3	179	Comparing Times	Measurement & Geometry	Compare the duration of an event, recognising that time can be recorded in minutes, seconds and hours. Understand the difference between am and pm time.
3	180	Equivalent Fractions	Number & Algebra	Recognise equivalent fractions that are the same size or at the same point on a number line. Compare equivalent fractions.
3	181	Number Fact Families 2	Number & Algebra	Solve problems using the commutative property of multiplication. Recognise different number combinations that make number fact families when multiplying and dividing.
3	182	Metres, Centimetres & Millimetres	Measurement & Geometry	Measure and compare objects using metres, centimetres and millimetres. Recognise which unit of measure is the most appropriate for the situation.
3	183	Solving Word Problems	Number & Algebra	Solve a variety of addition and subtraction word problems using different strategies.
3	184	Properties of 2D Shapes	Measurement & Geometry	Revise the different categories of 2D shapes and group shapes according to their attributes.
3	185	Adding Fractions	Number & Algebra	Add simple fractions that share the same denominator. Solve simple word problems.
3	186	Multiplication	Number & Algebra	Use vertical multiplication. Multiply 1 digit by 1 digit, and 2 digits by 1 digit.
3	187	Creating Graphs	Statistics & Probability	Collect data and draw a scaled bar graph. Solve one-step and two-step questions by interpreting the information presented in the graph.
3	188	Problem Solving	Number & Algebra	Solve word problems that involve the four operations. Interpret the question and determine the appropriate operation to solve the problem.
3	189	Time Word Problems	Measurement & Geometry	Solve word problems that focus on time. Use addition and subtraction to calculate time intervals in minutes.
3	190	Division 2	Number & Algebra	Recall division facts, and solve problems where there is an unknown quotient.
3	191	Fraction Word Problems	Number & Algebra	Solve word problems that include finding the fraction of a collection of objects, equivalent fractions and adding fractions.
3	192	Perimeter	Measurement & Geometry	Find the perimeter of a variety of shapes. Calculate perimeters of shapes where all sides are given, or where there is an unknown length. Investigate shapes that have different areas but the same perimeters.

Content Overview

ABC Mathseeds
Real learning, real maths, really fun!

Mathseeds Year 3: Lesson 151–200

YEAR	LESSON NUMBER	LESSON NAME	CONTENT STRANDS	LESSON CONTENT OUTCOMES
3	193	Multiplication 2	Number & Algebra	Use a variety of strategies to multiply one-digit numbers by multiples of 10.
3	194	Rounding to the Nearest 100	Number & Algebra	Use a number line. Identify the 'midpoint' and round up or down to the nearest hundred.
3	195	Fluent Facts within 1000	Number & Algebra	Use a range of strategies to fluently add and subtract numbers up to and within 1000.
3	196	Division Word Problems	Number & Algebra	Solve word problems that involve division. Interpret the questions and determine unknown quotients.
3	197	Whole Number Fractions	Number & Algebra	Recognise that whole numbers can be written as fractions. Identify whole number fractions on a number line and compare sizes.
3	198	Measurement Data	Statistics & Probability	Measure items using centimetres and record data using a graph. Record measurements in whole numbers, halves and quarters. Interpret the results.
3	199	Fluent x ÷ within 100	Number & Algebra	Use a range of strategies to fluently multiply and divide numbers within 100.
3	200	Area Problem Solving	Measurement & Geometry	Interpret and solve problems involving area. Find the areas of various rectangles using an additive approach.

Driving Tests Mapped to the Australian Curriculum Kindergarten

ABC Mathseeds

Number			Australian Curriculum
1	How many? to 10	Count items for the total.	ACMNA002
2	Zero	Identify the number and numeral.	ACMNA001
3	Count to 10	Select the right number of items.	ACMNA003
4	Numbers to 10	Identify numerals.	ACMNA001
5	Count back	Count back to find a missing number in a series.	ACMNA001
6	Equal groups to 10	Match equal groups of items.	ACMNA289
7	Groups to 10	Count groups of items.	ACMNA289
8	Compare to 10	Identify larger/smaller numbers.	ACMNA001
9	Sequence to 10	Identify a missing number in a series.	ACMNA001
10	Number words to 10	Match numerals and words.	ACMNA001
11	Teen numbers	Identify tens and ones to make teen numbers.	ACMNA002
12	Place value	Identify the number of tens and ones.	ACMNA002
13	Numbers to 20	Identify numerals.	ACMNA001
14	How many? to 20	Count items for the total.	ACMNA002
15	Count to 20	Select the right number of items.	ACMNA002
16	Sequence to 20	Identify a missing number in a series.	ACMNA001
17	Number words to 20	Match numerals and words.	ACMNA001
18	Groups to 20	Count groups of items.	ACMNA289
19	Equal groups to 20	Match equal groups of items.	ACMNA289
20	Compare to 20	Identify larger/smaller numbers.	ACMNA289
21	Numbers to 30	Identify numerals.	ACMNA001
22	Count to 30	Select the right number of items.	ACMNA002
23	Sequence to 30	Identify a missing number in a series.	ACMNA001
24	Ordinal numbers	Use symbols to show ordinal numbers.	ACMNA289
25	Using ordinal numbers	Identify position using ordinal numbers.	ACMNA289

Operations			Australian Curriculum
1	Picture addition to 5	Add groups of items together.	ACMNA004
2	Subitise and add to 5	Recognise, subitise and add items.	ACMNA004
3	Addition equations to 5	Addition number sentences.	ACMNA004
4	Match + number sentences	Identify an addition equation for a number.	ACMNA004
5	Mental addition to 5	Add without visual prompts.	ACMNA004
6	Subitise and add to 10	Recognise, subitise and add items.	ACMNA004
7	Picture addition to 10	Add groups of items together.	ACMNA004
8	Grouping	Counting groups of items.	ACMNA004
9	Making 10	Use ten frames for addition.	ACMNA004
10	Pairs of sums	Find equal number bonds to ten.	ACMNA004
11	Addition equations to 10	Addition number sentences.	ACMNA004
12	Mental addition to 10	Add without visual prompts.	ACMNA004
13	Difference to 5	Find the difference between two groups.	
14	Difference to 10	Find the difference between two groups.	
15	Addition equations to 20	Addition number sentences.	ACMNA004
16	Subtraction to 5	Identify a subtraction equation for a number.	
17	Subtraction to 10	Identify a subtraction equation for a number.	
18	Take away to 5	Use visual support to take away.	
19	Take away to 10	Use visual support to take away.	
20	Adding groups	Add doubles of items together.	ACMNA004
21	Sharing	Share groups of items equally.	ACMNA004
22	Subtraction sums to 5	Subtraction number sentences.	
23	Subtraction sums to 10	Subtraction number sentences.	
24	Subtract to 5	Subtract without visual prompts.	
25	Subtract to 10	Subtract without visual prompts.	

Patterns			Australian Curriculum
1	Object patterns	Select the next object for a pattern.	ACMNA005
2	Colour patterns	Select the next colour for a pattern.	ACMNA005
3	Shape patterns	Select the next shape for a pattern.	ACMNA005
4	Missing shapes	Identify the missing term in a patterns of shapes.	ACMNA005
5	Missing objects	Identify the missing term in a pattern of objects.	ACMNA005
6	Missing colours	Identify the missing term in a pattern of colours.	ACMNA005
7	Identify shape patterns	Select shapes arranged in a pattern.	ACMNA005
8	Identify object patterns	Select objects arranged in a pattern.	ACMNA005
9	Identify colour patterns	Select colours arranged in a pattern.	ACMNA005

Data			Australian Curriculum
1	Count objects	Count groups of items.	ACMNA289
2	Group items	Identify and count objects.	ACMNA005
3	Count table categories	Count items in a table.	ACMNA289
4	Find total of a group	Add to find the total up to 20.	ACMNA289
5	Total of a table	Add to find the total in a table.	ACMNA289
6	More and less for a table	Find the difference between groups.	ACMNA289
7	Graph categories	Identify and count groups in a picture graph.	ACMSP011
8	Total of a graph	Add to find the total.	ACMSP011
9	More and less for a graph	Find the difference between groups.	ACMSP011
10	Compare graph categories	Use comparative language.	ACMNA289

Measurement			Australian Curriculum
1	Day and night	Identify the time of day for an activity.	ACMMG008
2	Size	Use comparison to measure size.	ACMMG006
3	Size words	Describe size.	ACMMG006
4	Seasons	Identify seasons for different events.	ACMMG006
5	Length	Use comparison to measure length.	ACMMG006
6	Length words	Describe length.	ACMMG006
7	Weight	Use comparison to measure mass.	ACMMG006
8	Weight 2	Read a balance scale.	ACMMG006
9	Height	Use comparison to measure height.	ACMMG006
10	Height words	Describe height.	ACMMG006
11	Container weight	Identify more or less capacity.	ACMMG006
12	Weight words	Describe mass.	ACMMG006
13	Days of the week	Identify the name of each day.	ACMMG008
14	Season order	Order the seasons.	ACMMG007
15	Capacity	Use comparison to measure capacity.	ACMMG006
16	Capacity words	Describe capacity.	ACMMG006
17	Time	Compare the length of time for activities.	ACMMG007
18	Weekdays	Identify weekdays.	ACMMG008
19	Weekend	Identify weekend days.	ACMMG008
20	Volume	Recognise full and empty.	ACMMG006

Geometry			Australian Curriculum
1	Lines	Recognise straight and curved lines.	
2	2D sides	Identify the number of sides.	ACMMG009
3	2D corners	Identify the number of corners.	ACMMG009
4	Sort by sides	Sort 2D shapes by number of sides.	ACMMG009
5	2D	Match a name to a shape.	ACMMG009
6	Name 2D shapes	Match a shape to a name.	ACMMG009
7	Sort by corners	Sort 2D shapes by corners.	ACMMG009
8	2D objects	Recognise 2D shapes in items.	ACMMG009
9	Beside	Describe position of items in a line.	ACMMG010
10	Between	Describe position of items in a line.	ACMMG010
11	Above & below	Describe relative position of items.	ACMMG010
12	Compose shapes	Identify shapes to form a larger shape.	
13	In front & behind	Describe relative position of items.	ACMMG010
14	Far away & near	Describe relative position of items.	ACMMG010
15	3D surfaces	Identify the number of surfaces.	ACMMG009
16	3D corners	Identify the number of corners.	ACMMG009
17	Sort by surfaces	Sort 3D shapes by surface.	ACMMG009
18	Sort by corners 3D	Sort 3D shapes by corners.	ACMMG009
19	Flat or solid	Describe 2D & 3D.	ACMMG009
20	2D or 3D	Sort 2D & 3D.	ACMMG009
21	3D	Match a name to a shape.	ACMMG009
22	Name 3D	Match a shape to a name.	ACMMG009
23	3D objects	Recognise 3D shapes in items.	ACMMG009

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Driving Tests Mapped to the Australian Curriculum Year 1

Number			Australian Curriculum
1	Number lines to 20	Identify the missing number in the sequence.	ACMNA013
2	Numbers to 30	Identify the number and numeral.	ACMNA013
3	Sequences to 30	Identify a missing number in a series.	ACMNA012
4	Order to 40	Select numbers sequenced correctly.	ACMNA012
5	Count to 50	Count groups of tens and ones.	ACMNA014
6	Number lines to 50	Identify the missing number in the sequence.	ACMNA013
7	Compare to 50	Use the signs < and >.	ACMNA013
8	Number words	Match numerals and words.	ACMNA013
9	Place value to 50	Match visual of tens and ones with numeral.	ACMNA014
10	Partitioning to 50	Count groups of tens and ones.	ACMNA014
11	Count back from 50	Identify the missing number in a descending sequence.	ACMNA012
12	Numbers to 70	Identify the number and numeral.	ACMNA013
13	Order to 120	Select numbers sequenced correctly.	ACMNA012
14	Reverse order to 50	Identify the correct descending sequence.	ACMNA012
15	Before & after	Select the number one before or after.	ACMNA013
16	Sequence to 120	Identify a missing number in a series.	ACMNA012
17	Count to 120	Count groups of tens and ones.	ACMNA014
18	True or False	Use the signs < and >.	ACMNA014
19	Partitioning to 120	Match groups of tens and ones with numerals.	ACMNA014
20	Compare to 120	Identify missing number in a descending sequence.	ACMNA012
21	Number lines to 120	Identify the missing number in the sequence.	ACMNA013
22	Number words to 120	Match numerals and words.	ACMNA013
23	Reverse order to 120	Identify the correct descending sequence.	ACMNA012
24	Place value to 120	Match visuals of hundreds, tens and ones with numeral.	ACMNA014

Operations			Australian Curriculum
1	Add to 10	Addition number sentences.	ACMNA015
2	Add 3 numbers	Addition number sentences with 3 addends.	ACMNA015
3	Subtract to 10	Subtraction number sentences.	ACMNA015
4	Count on	Recognise, subitise and add items.	ACMNA015
5	Count back	Use visual support to take away.	ACMNA015
6	Make 10	Rearrange parts to make 10 and solve addition more easily.	ACMNA015
7	Number line addition	Use a number line to solve addition.	ACMNA015
8	Complete the subtraction	Find the unknown number in a subtraction number sentence.	ACMNA015
9	Number line subtraction	Use a number line to solve subtraction.	ACMNA015
10	Subtraction sums	Identify subtraction number sentences as true or false.	ACMNA015
11	Addition sums	Identify addition number sentences as true or false.	ACMNA015
12	Complete the addition	Find the unknown number in an addition number sentence.	ACMNA015
13	Add 10	Add 10 to a 2-digit number.	ACMNA015
14	Subtract 10	Subtract 10 from a 2-digit number.	ACMNA015
15	Add within 10	Add ones to a 2-digit number.	ACMNA015
16	Number fact families	Relate addition and subtraction to solve problems.	ACMNA015
17	Add tens to 2-digits	Add decades to a 2-digit number.	ACMNA015
18	Make 10 to add	Add ones to form a number on the decade.	ACMNA015
19	Add tens	Add numbers on the decade.	ACMNA015
20	Subtract tens	Subtract numbers on the decade.	ACMNA015

Patterns and Fractions			Australian Curriculum
1	Patterns	Select the next object for a pattern.	ACMNA018
2	Missing terms	Identify the missing term in a pattern.	ACMNA018
3	Halves	Find shapes cut into equal halves.	ACMNA016
4	Identify patterns	Select objects arranged in a pattern.	ACMNA018
5	Fractions of shapes	Select shapes cut into equal parts.	ACMNA016
6	Fractions of groups	Select groups equally divided.	ACMNA016
7	Count by 2s	Identify the missing term in a 2s pattern.	ACMNA012
8	Count by 5s	Identify the missing term in a 5s pattern.	ACMNA012
9	Count by 10s	Identify the missing term in a 10s pattern.	ACMNA012
10	Counting patterns	Identify the skip-counting pattern.	ACMNA018
11	Fraction notation	Identify notation of $\frac{1}{2}$ and $\frac{1}{4}$.	ACMNA016
12	Place value patterns	Find the next term in a 1s or 10s pattern.	ACMNA018
13	Identify fractions	Match image with fraction notation.	ACMNA016
14	Calculate fractions	Find fractions of a group.	ACMNA016

Data			Australian Curriculum
1	Table categories	Count items in a table.	ACMSP263
2	Total table	Add to find the total in a table.	ACMSP263
3	Interpret a table	Identify popularity by counting.	ACMSP263
4	Survey question	Identify a question that might produce a table.	ACMSP262
5	Will or won't	Determine the chance of events.	ACMSP024
6	Most & least	Identify most and least by counting.	ACMSP263
7	Might	Determine the chance of events.	ACMSP024
8	Certain or impossible	Determine the possibility of events.	ACMSP024
9	Compare categories	Count on to find the difference between categories.	ACMSP263
10	Add all items	Add to find the total in a graph.	ACMSP263
11	Chance	Identify chance of dice rolls.	ACMSP024
12	Order categories	Identify most and least by counting.	ACMSP263
13	More or less	Count on to find the difference between categories.	ACMSP263
14	Graph categories	Count categories in a graph.	ACMSP263
15	Interpret a graph	Identify popularity by counting.	ACMSP263
16	Graph question	Identify a question that might produce a graph.	ACMSP262

Measurement			Australian Curriculum
1	O'clock	Tell analogue time on the hour.	ACMMG020
2	Length	Compare lengths of items.	ACMMG019
3	Coins	Identify the value of coins.	ACMNA017
4	Comparing length	Compare the length of two objects by using a third object.	ACMMG019
5	Sorting coins	Sort coins according to colour.	ACMNA017
6	Coin symbols	Identify images on coins.	ACMNA017
7	Identifying coins	Select the correct coin.	ACMNA017
8	Half hours	Tell digital and analogue time to the half-hour.	ACMMG020
9	Time in words	Tell analogue time on the hour and half-hour.	ACMMG020
10	Telling analogue time	Identify the clock to match the time given.	ACMMG020
11	Capacity	Identify containers holdings more or less capacity.	ACMMG019
12	Ordering coins	Arrange coins according to value.	ACMNA017
13	Measuring length	Measure items using informal units.	ACMMG019
14	How to measure	Identify where length is being measured correctly.	ACMMG019
15	Telling digital time	Identify the clock to match the time given.	ACMMG020
16	Duration	Estimate the most correct length of time for everyday events.	ACMMG021
17	Comparing capacity	Identify container holding more or less using informal units.	ACMMG019
18	Measuring correctly	Identify where cacptiy is being measured correctly.	ACMMG019
19	Measuring capacity	Measure items using informal units.	ACMMG019

Geometry			Australian Curriculum
1	2D	Match a name to a 2D shape.	ACMMG022
2	Corners	Identify the number of corners.	ACMMG022
3	Sides	Identify the number of sides.	ACMMG022
4	Above & below	Describe relative position of items.	ACMMG023
5	Left and right	Describe relative position of items.	ACMMG023
6	Name 2D shapes	Match a 2D shape to a name.	ACMMG022
7	3D	Match a name to a 3D shape.	ACMMG022
8	3D surfaces	Use surfaces to sort 3D shapes.	ACMMG022
9	Composing shapes	Identify shapes that can be used to form larger shapes.	
10	Defining 2D	Identify defining attributes of 2D shapes.	ACMMG022
11	Follow directions	Find the relative position of items in a grid.	ACMMG023
12	Turns	Identify left and right when using a map.	ACMMG023
13	Composite shapes	Identify a new shape formed by two smaller shapes.	
14	Rotations	Identify movements on a map.	ACMMG023
15	Giving directions	Give directions for a map.	ACMMG023
16	Correct directions	Identify turns using arrows.	ACMMG023
17	3D corners	Classify 3D shapes using corners.	ACMMG022
18	Name 3D	Match a 3D shape to a name.	ACMMG022
19	3D edges	Classify 3D shapes using edges.	ACMMG022

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Driving Tests Mapped to the Australian Curriculum Year 2

ABC Mathseeds

Number			Australian Curriculum
1	Numbers to 500	Identify the numeral for a 3-digit number.	ACMNA027
2	Order to 500	Identify the correct sequence.	ACMNA027
3	Number lines to 500	Identify the missing number in the sequence.	ACMNA027
4	Partition to 500	Count the number of hundreds, tens or ones.	ACMNA028
5	Numbers to 1000	Match number of hundreds, tens and ones to a numeral.	ACMNA028
6	Order to 1000	Identify the correct sequence.	ACMNA027
7	Count to 500	Count groups of hundreds, tens and ones to find the total.	ACMNA028
8	Place value to 500	Match number word to numeral.	ACMNA027
9	Before and after to 500	Select the number one before or after.	ACMNA027
10	Sequence to 500	Identify the next number in the sequence.	ACMNA027
11	Count to 1000	Count groups of hundreds, tens and ones to find the total.	ACMNA028
12	Number lines to 1000	Identify the missing number in the sequence.	ACMNA027
13	Sequence to 1000	Identify the next number in the sequence.	ACMNA027
14	Compare to 500	Understand the meaning of <, > and =.	ACMNA027
15	Compare to 1000	Understand the meaning of <, > and =.	ACMNA027
16	Partition to 1000	Count the number of hundreds, tens or ones.	ACMNA028
17	Before and after to 1000	Select the number one before or after.	ACMNA027
18	Place value to 1000	Match number word to numeral.	ACMNA027
19	Expanded form to 500	Select the expanded form of a number.	ACMNA028
20	Expanded form to 1000	Select the expanded form of a number.	ACMNA028
21	Digit value to 500	Understand the meaning of digits in a number.	ACMNA028
22	Digit value to 1000	Understand the meaning of digits in a number.	ACMNA028
23	Number words to 500	Match numerals and words.	ACMNA027
24	Words to 1000	Match numerals and words.	ACMNA027

Operations			Australian Curriculum
1	Count on	Count on with a number line to add.	ACMNA030
2	Add to 20	Addition number sentences.	ACMNA030
3	Odd or even	Subitise to identify odd and even numbers.	ACMNA030
4	Count back	Count back on the number line to subtract.	ACMNA030
5	Subtract to 20	Subtraction number sentences.	ACMNA030
6	Making groups	Divide equally to make groups.	ACMNA032
7	Add tens	Add numbers on the decade.	ACMNA030
8	Adding arrays	Use repeated addition to total an array.	ACMNA031
9	Adding groups	Count groups of items to add.	ACMNA031
10	Repeated addition	Match an equation to its array.	ACMNA031
11	Equal groups	Select the image to match the number sentence.	ACMNA032
12	Groups	Identify equal groups of items.	ACMNA032
13	Subtract tens	Subtract numbers on the decade.	ACMNA030
14	Number line subtract	Use a number line to solve subtraction.	ACMNA030
15	Number line add	Use a number line to solve addition.	ACMNA030
16	Add two-digits	Use a vertical algorithm to solve addition.	ACMNA030
17	Subtract two-digits	Use a vertical algorithm to solve subtraction.	ACMNA030
18	Add three-digits	Add a 3-digit and 2-digit number with a vertical algorithm.	ACMNA030
19	Arrays	Count arrays.	ACMNA031
20	Linked sums to 100	Relate addition and subtraction to solve problems.	ACMNA029
21	Subtract to 1000	Solve subtraction using Base 10 materials.	ACMNA030
22	Doubles	Double groups of items to find the total.	ACMNA030
23	Add more numbers	Add three 2-digit numbers with a vertical algorithm.	ACMNA030
24	Add to 1000	Solve addition using Base 10 materials.	ACMNA030
25	Subtract three-digits	Use a subtraction algorithm for 3- and 2-digit numbers.	ACMNA030
26	Linked sums to 1000	Relate addition and subtraction to solve problems.	ACMNA029
27	Mental addition	Add one hundred, ten or one to a 3-digit number.	ACMNA030
28	Mental subtraction	Subtract one hundred, ten or one from a 3-digit number.	ACMNA030

Patterns and Fractions			Australian Curriculum
1	2s patterns	Identify the missing term in a 2s pattern.	ACMNA035
2	5s pattern	Identify the missing term in a 5s pattern.	ACMNA035
3	10s pattern	Identify the missing term in a 10s pattern.	ACMNA035
4	100s patterns	Identify the missing term in a 100s pattern.	ACMNA035
5	Equal parts	Identify the number of equal shares in a shape.	ACMNA033
6	Place value patterns	Find the next term in a 1s, 10s or 100s pattern.	ACMNA026
7	Jump by 2s	Find the term in ascending and descending patterns.	ACMNA026
8	Jump by 5s	Find the term in ascending and descending patterns.	ACMNA026
9	Jump by 10s	Find the term in ascending and descending patterns.	ACMNA026
10	Jump by 100s	Find the term in ascending and descending patterns.	ACMNA026
11	Wholes	Name the equal parts of a shape.	ACMNA033
12	Fractions	Name the fraction a shape has been divided into.	ACMNA033
13	Describe patterns	Identify as a 1s, 2s, 5s, 10s or 100s pattern.	ACMNA035
14	Fraction words	Use words to identify parts of fractions coloured.	ACMNA033
15	Fractions of groups	Identify a fraction of a divided group.	ACMNA033
16	Identify fractions	Match fraction notation to coloured fraction.	ACMNA033
17	Compare fractions	Match larger and smaller fractions.	ACMNA033

Measurement			Australian Curriculum
1	Days	Identify days on a calendar.	ACMMG041
2	Dates	Match dates to a marked calendar.	ACMMG041
3	Months	Identify number of days in a month.	ACMMG041
4	Month order	Sequence months.	ACMMG040
5	Seasons	Match events to a season.	ACMMG040
6	Length and area	Identify the longest/shortest or is bigger/smaller.	ACMMG037
7	Telling time	Match half and quarter past times.	ACMMG039
8	Capacity and volume	Identify which holds more/less or is biggest/smallest.	ACMMG037
9	Identifying coins	Select the correct coin.	ACMNA034
10	5 minute intervals	Tell analogue time to the nearest five minutes.	ACMMG039
11	Ordering coins	Identify the value of coins.	ACMNA034
12	Equivalent coins	Identify collections of coins and notes with the same value.	ACMNA034
13	Measure lengths	Measure using cm or m.	
14	Length units	Match items to rulers using cm or m.	
15	Length difference	Find the difference in cm between two objects.	
16	Season order	Sequence seasons.	ACMMG040
17	Seasons & months	Match months to seasons.	ACMMG040
18	Compare mass	Use two balance scales to find relative mass.	ACMMG038
19	Balance scales	Identify the number of objects to balance the scales.	ACMMG038
20	am and pm	Match digital time to written descriptions.	
21	Estimate lengths	Match items to approximate lengths.	
22	Operations in length	Use addition and subtraction to find length totals.	
23	Equivalent money	Match equivalent sums of money.	ACMNA034
24	Add money	Add notes and coins.	ACMNA034

Geometry			Australian Curriculum
1	Flips and slides	Identify transformations of flips and slides.	ACMMG045
2	Position	Find the relative position of items in a grid.	ACMMG044
3	3D	Match names to 3D shapes including prisms and pyramids.	ACMMG043
4	2D	Match names to 2D shapes.	ACMMG042
5	Faces and surfaces	Sort shapes according to faces and surfaces.	ACMMG043
6	Sides and edges	Sort shapes according to sides and edges.	ACMMG042
7	Vertices	Name shapes according to vertices.	ACMMG043
8	Grid maps	Find objects on a coordinate map.	ACMMG044
9	Transitions	Identify flips, slides and turns.	ACMMG045
10	Quadrilaterals	Sort quadrilaterals from other 2D shapes.	ACMMG042
11	Turns	Name half and quarter turns of shapes.	ACMMG046
12	Patterns	Identify the next turn for patterns.	ACMMG045
13	Directions	Give two-step directions for a map.	ACMMG044

Data and Chance			Australian Curriculum
1	Sorting data	Identify categories for sorting objects.	ACMSP049
2	Chance	Identify the chance of events occurring.	ACMSP047
3	Likely or unlikely	Identify likelihood of events occurring.	ACMSP047
4	Using tallies	Identify tallies showing data.	ACMSP049
5	Tables	Identify tables showing data.	ACMSP050
6	Certain and impossible	Identify the possibility of events occurring.	ACMSP047
7	Data displays	Sort tables and graphs.	ACMSP050
8	Picture graphs	Identify graphs that represent data.	ACMSP050
9	Bar graphs	Identify graphs that represent data.	ACMSP050
10	Count categories	Identify and count categories in graphs.	ACMSP050
11	Total items	Add to find the total.	ACMSP050
12	Line plots	Identify line plots showing data.	ACMSP050
13	Interpret data	Count, check and classify data.	ACMSP050
14	Compare categories	Count to find the difference between categories.	ACMSP050

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Australian Curriculum Mapped to the Driving Tests

Kindergarten

Number Tests	
Number and Algebra	
Number and place value	
ACMNA001	2, 4, 5, 8, 9, 10, 13, 16, 17, 21, 23
ACMNA002	1, 11, 12, 14, 15, 22
ACMNA003	3
ACMNA289	6, 7, 18, 19, 20, 24, 25

Operations Tests	
Number and Algebra	
Number and place value	
ACMNA004	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 20, 21

Patterns Tests	
Number and Algebra	
Patterns and algebra	
ACMNA005	1, 2, 3, 4, 5, 6, 7, 8, 9

Measurement Tests	
Measurement and Geometry	
Using units of measurement	
ACMMG006	2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16, 20
ACMMG007	17
ACMMG008	1, 4, 13, 14, 18, 19

Geometry Tests	
Measurement and Geometry	
Shape	
ACMMG009	2, 3, 4, 5, 6, 7, 8, 15, 16, 17, 18, 19, 20, 21, 22, 23
Location and transformation	
ACMMG010	9, 10, 11, 13, 14

Data Tests	
Statistics and Probability	
Data representation and interpretation	
ACMSP011	7, 8, 9
Number and Algebra	
Number and place value	
ACMNA289	1, 3, 4, 5, 6, 10
Patterns and algebra	
ACMNA005	2

Year 1

Number Tests	
Number and Algebra	
Number and place value	
ACMNA012	3, 4, 11, 13, 14, 16, 20, 23
ACMNA013	1, 2, 6, 7, 8, 12, 15, 21, 22
ACMNA014	5, 9, 10, 17, 18, 19, 24

Operations Tests	
Number and Algebra	
Number and place value	
ACMNA015	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

Patterns Tests	
Number and Algebra	
Number and place value	
ACMNA012	7, 8, 9
Fractions and decimals	
ACMNA016	3, 5, 6, 11, 13, 14
Patterns and algebra	
ACMNA018	1, 2, 4, 10, 12

Measurement Tests	
Measurement and Geometry	
Using units of measurement	
ACMMG019	2, 4, 11, 13, 14, 17, 18, 19
ACMMG020	1, 8, 9, 10, 15
ACMMG021	16
Number and Algebra	
Money and financial mathematics	
ACMNA017	3, 5, 6, 7, 12

Geometry Tests	
Measurement and Geometry	
Shape	
ACMMG022	1, 2, 3, 6, 7, 8, 10, 17, 18, 19
Location and transformation	
ACMMG023	4, 5, 11, 12, 14, 15, 16

Data Tests	
Statistics and Probability	
Chance	
ACMSP024	5, 7, 8, 11
Data representation and interpretation	
ACMSP262	4, 16
ACMSP263	1, 2, 3, 6, 9, 10, 12, 13, 14, 15

Year 2

Number Tests	
Number and Algebra	
Number and place value	
ACMNA027	1, 2, 3, 6, 8, 9, 10, 12, 13, 14, 15, 17, 18, 23, 24
ACMNA028	4, 5, 7, 11, 16, 19, 20, 21, 22

Operations Tests	
Number and Algebra	
Number and place value	
ACMNA029	20, 26
ACMNA030	1, 2, 3, 4, 5, 7, 13, 14, 15, 16, 17, 18, 21, 22, 23, 24, 25, 27, 28
ACMNA031	8, 9, 10, 19
ACMNA032	6, 11, 12

Patterns Tests	
Number and Algebra	
Number and place value	
ACMNA026	6, 7, 8, 9, 10
Fractions and decimals	
ACMNA033	5, 11, 12, 14, 15, 16, 17
Patterns and algebra	
ACMNA035	1, 2, 3, 4, 13

Measurement Tests	
Measurement and Geometry	
Using units of measurement	
ACMMG037	6, 8
ACMMG038	18, 19
ACMMG039	7, 10
ACMMG040	4, 5, 16, 17
ACMMG041	1, 2, 3
Number and Algebra	
Money and financial mathematics	
ACMNA034	9, 11, 12, 23, 24

Geometry Tests	
Measurement and Geometry	
Shape	
ACMMG042	4, 6, 10
ACMMG043	3, 5, 7
Location and transformation	
ACMMG044	2, 8, 13
ACMMG045	1, 9, 12
ACMMG046	11

Data Tests	
Statistics and Probability	
Chance	
ACMSP047	2, 3, 6
Data representation and interpretation	
ACMSP049	1, 4
ACMSP050	5, 7, 8, 9, 10, 11, 12, 13, 14

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Foundational Research

Early Numeracy Development

Studies have shown that many young children have an intrinsic number sense and natural interest in mathematics. Cultivating this interest into a strong skill set is key for long-term mathematical success and is a primary goal for stakeholders. Research indicates that equipping learners with the necessary skills, strategies and tools requires substantial investment in systematic, explicit early-learning mathematics programs. Within these programs, content must address number sense and computation as these foundational building blocks underpin more complex skill sets in the future. Alongside number sense, a rigorous learning program should address other important competencies including algebra, geometry, measurement, data analysis and probability in a developmentally appropriate order. To help nurture the natural learning sequence, progress needs to be carefully monitored with timely, constructive feedback given to students and parents.

The Key Elements of Mathseeds

Mathseeds is an interactive Web-based mathematics teaching and learning program for children Kindergarten through Grade 3. It has been carefully structured to support individual learning by combining the most effective pedagogical research on number sense; child development; learning styles; motivation; technology and key curriculum initiatives. In response to current best practice research, Mathseeds utilizes the following instructional design elements to benefit students:

- systematic and explicit teaching of mathematical content, skills and strategies
- an early and continued focus on number sense and mental computation to lay a strong foundation for more complex mathematical ideas
- a variety of instructional formats designed to suit individual learning styles
- short, focused activities set in meaningful contexts
- practice activities that build automaticity and fluency in number facts and operations
- repetition and revisiting of core ideas that build in complexity over time
- a wide range of motivational elements and fun rewards to engage young learners
- accessible from a wide range of computer devices, bridging the school and home environments

Informing Research for Mathseeds

The Mathseeds White Paper includes a structured, in-depth review of contemporary pedagogical research on mathematics learning in today's classrooms. Research has shown that several principles and critical factors underpin the most effective mathematical pedagogy and instruction. Below is a summary of this research:

- Strong number sense is a precursor of future mathematical success. It is to mathematics what phonemic awareness is to reading. To nurture children's growing number sense, teachers need to provide safe learning environments where students can fully engage in activities.
- Several factors underpin the most effective instruction including motivation and engagement, building on students' thinking, making connections, structured lessons, tools and representations, feedback and assessment for learning.
- Students learn best when they are provided with short sessions, quick instructional pace and time to process new information.
- Not all children learn in the same way and programs should provide a variety of approaches to cater for these different styles.
- Motivation plays a key role in successful educational programs. Rewards positively reinforce achievement and encourage new learning to occur.
- Effective programs provide students with many opportunities for success and also challenge them to move forwards and extend their knowledge and achievements. Effectively assessing and personalizing instruction needs to be an integral part of the program's design.
- Technology needs to provide rich reporting data sets to inform teachers and other key stakeholders. This ensures that technology works alongside the best in-class learning programs.

Mathseeds has been built on best practice research alongside core curriculum initiatives, creating a program that is both educationally rigorous and highly motivating. Its lessons provide an engaging environment for young children. The instructional elements and interactive activities are set in contexts that are fun, meaningful and relevant for young children. Mathseeds has been carefully designed to maximize student learning and to equip students with the strongest foundation possible to achieve lifelong mathematical success.

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Technical Requirements

ABC Mathseeds Minimum System Requirements

Desktop

- Windows Vista+
- Mac OS X 10.6 +
- Browsers: (for best performance, it's best to have the most recent version)
    - o Safari
    - o Firefox (requires Flash for sound)
    - o Google Chrome
    - o Internet Explorer 9 and above

Tablet

- iOS:
    - o iPad 2+
    - o iOS 6+
- Android:
    - o Supported on Samsung Galaxy Tab 2, Galaxy Tab 3, Nexus 7 and 10 running Jelly Bea OS 4.1 or above.
    - o Must use Google Chrome browser.
- Not supported on Dell Venue 8, Kindle Fire, PendoPad or Thomson Tablet

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Troubleshooting Tips

Most problems with ABC Reading Eggs can be fixed by following the troubleshooting steps below. Try these steps in order. If one doesn't fix the problem, move onto the next one. If you need any help, please contact our friendly customer service team.

- Refresh your page.
- Ensure you have fixed line high speed broadband access.
- Ensure that you access the ABC Reading EGgs via the internet address bar and not through "shortcuts" or "favourites".
- Get the latest edition of Flash player click here.
- Delete your browsing history (temporary internet files/cache/cookies) as your computer may be continually memorising the same error. If you are not sure how to do this please click here for appropriate instructions.
- Upgrade your Internet browser to Google Chrome.
- Investigate whether you have a parental lock or antivirus software that is blocking the site. Ensure the following URL's have been added to your safe list.

*readingeggs.com
readingeggs.com.au
readingeggspress.com.au
student.readingeggspress.com.au
student.mathseeds.com.au

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Results

We asked teachers what they felt about ABC Mathseeds and here's what they said:

98% of teachers shared they would **recommend ABC Mathseeds** to other teachers.

Over **90% of teachers** shared that **ABC Mathseeds complements** their **classroom maths lessons.**

70% of teachers shared that **ABC Mathseeds met the needs** of their students.

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To start a free trial or to order, contact 3P Learning today!

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Students enjoy using ABC Mathseeds, and the program works well as an in-class reward activity.

"When first starting my students on ABC Mathseeds, I immediately saw engagement and enthusiasm due to the high level of motivating tools that are on ABC Mathseeds. This program is by far one of the best that we have tried in our classroom, and the level of excitement and willingness to learn and work that comes out of my students really shows how well put together this program really is!"
Lyndsey C

"I love it and my students ask me to do ABC Mathseeds every day. They say it is 'cool' and 'the best maths games ever.'"
Kimberly H

Your students will love the **highly interactive and rewarding** lessons!

Your local Mathseeds consultant is:

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