



# Pot Plant Project

Teacher Workbook

— Year 1 —



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Dear teacher,

On behalf of the Mathseeds team we would like to thank you for taking on the **ABC Mathseeds Pot Plant Project** with your class.

The **Pot Plant Project** is a fantastically unique and exciting way for your students to develop a love of maths, while they work on an enjoyable class project. This project, with your support and guidance will take your students on a phenomenal journey, where not only will they develop and strengthen fundamental numeracy skills, but will begin to understand the importance of working in a team. As students work through the different stages of growing a plant they will be introduced to new mathematical concepts with ABC Mathseeds lessons and workbook activities, which all link back to the specific stage of growing a plant your students are at.

This **Teacher Guide** provides you with all the essential information to smoothly run this project with your students. The first couple of pages will guide you on how to get set up on ABC Mathseeds, with the later pages providing you with complete lesson plans of each activity in the Student Workbook.

**So, what's next?** It's time to get started! Just turn to page 2 of this Teacher Guide.

We hope you and your students enjoy the ABC Mathseeds Pot Plant Project.

Warm regards,

The ABC Mathseeds Team



## Understanding the Student Workbook

The student workbook is a 16-page activity book that your students will progress through as they work on their class project. The workbook consists of 6 unique activities that both complement the plant growth component of the Pot Plant Project and develop your students' numeracy skills and mastery.

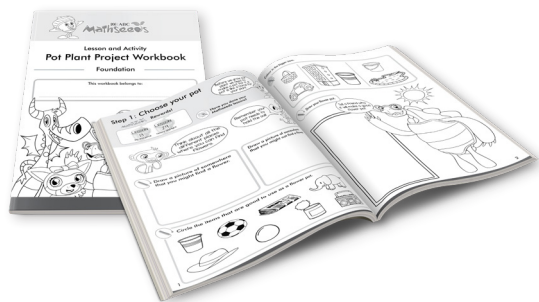
### What's in the Student Workbook?

- **The ABC Mathseeds lessons**

At the start of every activity is a specific 'ABC Mathseeds Lessons' space. This area highlights the particular ABC Mathseeds lessons that set up the essential concept knowledge and skills required for the upcoming workbook activities.

- **The workbook activities**

The workbook includes 6 different activities. Within each activity the questions vary in style. These activities help further reinforce the maths skills covered in the ABC Mathseeds lesson presented at the start of each new activity worksheet.



- **And let's not forget...**

The Student Workbook also doubles as a complete colouring book. When students have completed their assigned activities, they can keep enjoying themselves and bring to life all the ABC Mathseeds characters!

### What is ABC Mathseeds?


ABC Mathseeds is designed specifically to teach the core maths and problem-solving skills that learners in F-2 need to be successful at school. It has been developed by a highly experienced team of educators, publishers and web developers who brought you the award-winning ABC Reading Eggs. The program is packed full of wonderful lessons, activities, songs and rewards, making learning interesting, enjoyable and rewarding, so students will learn more, achieve more and retain skills in the long term!

Real learning, real maths, really fun! That's our motto, and when you try ABC Mathseeds you will see that we really deliver on this promise.



## Getting started with ABC Mathseeds

Once your Pot Plant Project access is set up, you will be able to log in to your Teacher Dashboard.

- 1 On the ABC Mathseeds homepage ([www.mathseeds.com.au](http://www.mathseeds.com.au)) click .
- 2 Enter your login and password.
- 3 Once you have logged in to your account, you will arrive at your ABC Mathseeds Teacher Dashboard. From here you have access to all the fantastic 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

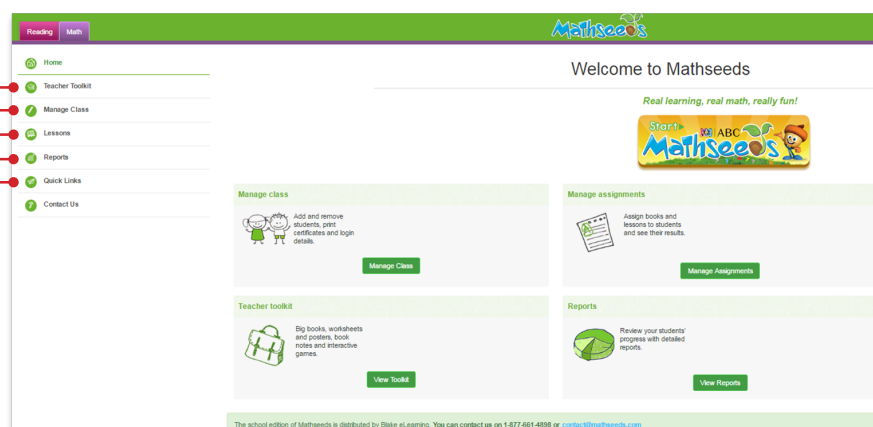
Here you can preview all of the lessons on the Mathseeds program. You also have access to downloadable lesson plans and student worksheets for each lesson. You can also manage classes and assign books and lessons to students and view quiz results.

### Reports

Here you can access detailed reports of each student's progress and results on the Mathseeds program.

### Quick Links

Easy access to Research Reports which 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.



### Haven't got access to ABC Mathseeds?





You will have received an email welcoming you to your ABC Mathseeds Pot Plant Project. Within the email you would have been given directions on how to set up your access and your class.

If you did not receive this email, please contact us at [customerservice@3plearning.com.au](mailto:customerservice@3plearning.com.au) or 1300 850 331.

## Print off student login details

Once your students have been added to your class, you can print off their login details via a PDF to use in the classroom or hand out individual logins to students.


- 1 Select **Manage Class** on the left side navigation bar of your Teacher Dashboard.
- 2 Click on **Class logins** to download your student login details.
- 3 Print out and use in your classroom as needed.

<div>Bobbie Y. </div> <div>Login: bobbie303 Year: 2</div> <div>Password: fly62</div> <div><a href="http://www.mathseeds.com.au">www.mathseeds.com.au</a></div>	<div>Georgia M. </div> <div>Login: georgia17930 Year: 1</div> <div>Password: off14</div> <div><a href="http://www.mathseeds.com.au">www.mathseeds.com.au</a></div>
<div>Emily D. </div> <div>Login: emily60358 Year: 1</div> <div>Password: mum24</div> <div><a href="http://www.mathseeds.com.au">www.mathseeds.com.au</a></div>	<div>Lauren S. </div> <div>Login: lauren16589 Year: 1</div> <div>Password: cute95</div> <div><a href="http://www.mathseeds.com.au">www.mathseeds.com.au</a></div>

## Getting your students onto ABC Mathseeds

Now that you have your students login details ready to go, you can easily get your students in to the Mathseeds program.

Here's how...

- 1 On the ABC Mathseeds homepage ([www.mathseeds.com.au](http://www.mathseeds.com.au)) click .
- 2 Students will enter their unique login and password in to the ABC Mathseeds login page.
- 3 Once students have logged in to their account, they will arrive at their ABC Mathseeds Student Dashboard. From here they have access to all the fantastic student features of ABC Mathseeds.

### Awards

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

### Lessons

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

### Driving Tests

Over 340 highly motivating tests that assess students skills and knowledge with a fun reward game!



### Play

This is the playroom, which consists of seven sections with over 120 activities. Your student can access the playroom at any time simply by clicking on the Play icon.

### 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 costs 10 acorns.

### 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.

## ABC Mathseeds lessons

ABC Mathseeds lessons teach core numeracy skills through a motivating cycle of teaching and guided practice that actively rewards student progress, keeping them engaged and eager to learn.

Each lesson begins with a focused step-by-step demonstration of a key maths skill. Students then apply the newly learnt skill to a range of short, guided interactive activities, which vary in format. Every lesson captures the attention of students with a multi-layered reward system that keeps them motivated and making progress. Teachers are provided with timely and useful feedback on students' performance and achievements, enabling you to quickly identify the strengths and weaknesses of students.

### Here's exactly how each ABC Mathseeds lesson works...

#### 1 Teaching Sequence

The ABC Mathseeds characters explain a maths concept and discuss how to solve a problem using this concept.

#### 2 Student Practice

Interactive screens give students the opportunity to practice new skills.

#### 3 ABC Mathseeds Songs

Many of the lessons include a memorable song that helps reinforce the newly introduced maths concept.

#### 4 ABC Mathseeds Activities

Each ABC Mathseeds lesson includes a set of nine interactive activities. There are over 350 unique activities within the program!

#### 5 The E-book

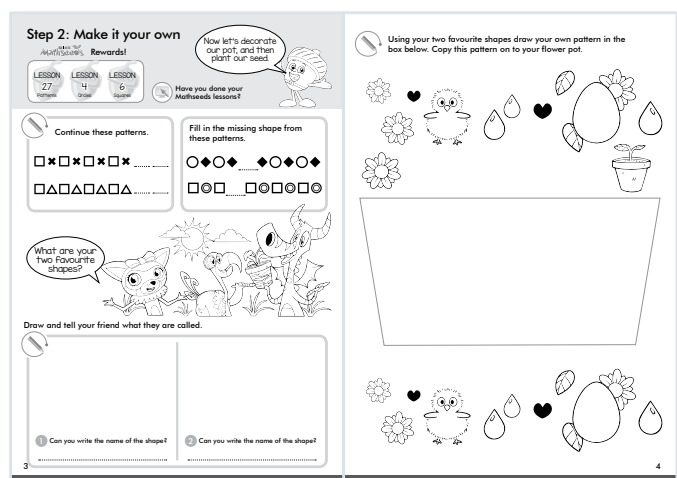
Every lesson ends with an e-book that includes full audio support. These books reiterate the main lesson points and are designed to consolidate new concepts and skills.

#### 6 Earning a Reward

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

## Assigning ABC Mathseeds lessons

At the start of every activity in your students' workbooks, there is a specific 'ABC Mathseeds Lessons' space. This space highlights specific ABC Mathseeds lessons that complement the upcoming workbook activity.





### To assign these specific lessons...

- 1 Select **Lessons** on the left-hand navigation bar.
- 2 From the drop-down menu select **Manage Assignments**.
- 3 Filter by class, year level or type in a student's name to find and select students to add to your assignment.
- 4 Select the start and finish dates.
- 5 Choose the appropriate lesson and click **Create this assignment**.

### Teacher Tip!

Carefully select the start and finish dates, as they can't be changed once the assignment has been created.

Student navigation within their dashboard will be restricted until they complete lessons which have been assigned.



The screenshot shows the 'Manage Assignments' page in the Mathseeds interface. On the left is a navigation menu with options: Home, Teacher Toolkit, Manage Class, Lessons, Reports, Quick Links, and Contact Us. The 'Lessons' menu item is expanded, showing 'Lesson 57', 'Lesson 3', and 'Lesson 61'. The main area has tabs for 'Current Assignments' and 'Past Assignments'. Below the tabs is a table with columns: Assignment Title, Assigned by, Start Date, Due Date, Status, Students Completed, Av. Score %, and an action column. The table lists three assignments, all with a status of 'Pending'.

Assignment Title	Assigned by	Start Date	Due Date	Status	Students Completed	Av. Score %	
Lesson 57	Me	Thu, 06 Dec 18	Mon, 10 Dec 18	Pending	0 / 4	-	End assignment
Lesson 3	Me	Tue, 11 Dec 18	Wed, 12 Dec 18	Pending	0 / 2	-	End assignment
Lesson 61	Me	Mon, 24 Dec 18	Tue, 25 Dec 18	Pending	0 / 4	-	End assignment

### Previewing ABC Mathseeds lessons

**Preview Lessons** enables you to preview each ABC Mathseeds lesson before you assign them to your students.

- 1 Simply click **Lessons** from the left-hand navigation bar, and then select **Preview Lessons**.
  - 2 To view the lesson, click **Preview**, the lesson will appear as your student would see it.
- Note:** You can also work through the lesson as your students would!

### Additional resources

Each lesson is also accompanied by additional resources for both teachers and students. The student resources include a range of additional work sheets, and the teacher resources give teachers extra classroom activities which are all linked to the specific ABC Mathseeds lesson.

To view these, click on **Resources** under each lesson.

## Rewarding and recognising achievements

Students learn best when they are having fun, and the ABC Mathseeds Pot Plant Project makes learning maths easy and enjoyable for all your students.

### How do we keep your students excited and eager to learn?

- **Golden Acorns**

When students complete the ABC Mathseeds lessons highlighted in their Student Workbooks they will be rewarded with golden acorns! Students love collecting these as they can later be spent on a variety of awesome items for their treehouse and avatar, and at the arcade.



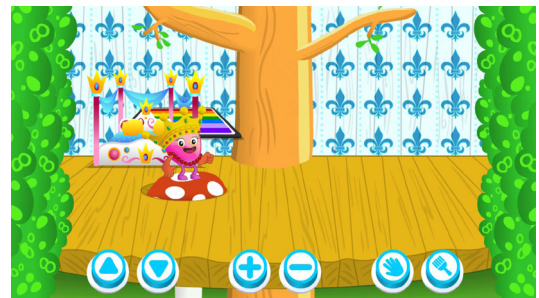
- **Building their own avatar**

Students can personalise their avatar by shopping for fun costumes with their golden acorns. The more acorns they collect, the more items they can buy.



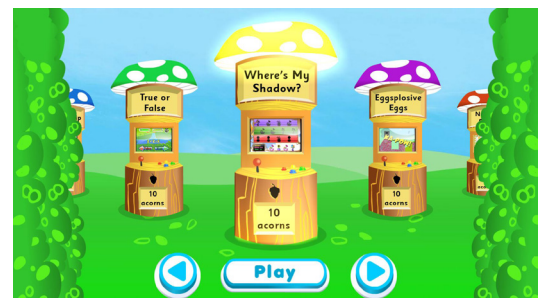
- **Designing their Treehouse**

Students can shop for decorations with their acorns and personalise their treehouse. This is where they can also view all the rewards they have earned and be proud of their achievements.



- **Playing arcade games**

Students are motivated to make real progress through the gamified experience ABC Mathseeds provides. The games are educational and fun and include leader boards that encourage students to work hard and try again.



- **Stickers**

Each activity in the Student Workbook has a designated sticker space. We encourage you to recognise your students progress and achievements at the completion of each workbook activity by rewarding them with an achievement sticker to complete their activity page.



## Lesson Plans: The Student Workbook

For each of the below lessons follow these steps

1. **Establish students prior knowledge on the focus areas/ briefly introduce the concept:**  
Bring your entire class together and have a brief discussion on the focus areas of the lessons. Do students already have some knowledge? Provide definitions and examples of all concepts.
2. **ABC Mathseeds lesson:**  
Set students the ABC Mathseeds lessons highlighted in each lesson plan. Do this through the **Manage Assignments** feature on your Teacher Dashboard.  
**Note:** To refresh your memory on this process turn back to page 6.
3. **Workbook activity:**  
Once students have completed the activities assigned to them on ABC Mathseeds, get them to work through the activities in the Student Workbook. Once completed award them with their 'completed' stickers.
4. **Project task:**  
Some of the activities will also have a step on what to do next with the plant growing project. Look out for these!

### Activity 1: Decorate your pot

#### Context

This activity gets students to think about the different shapes there are around us. Students work through a series of questions that develop their understanding of 2D shapes.

Complete  
in week  
1 of the  
project

#### Project task:

Hand out a pot to each group (or each student if they are working individually). Give students some time to replicate their workbook pattern on their pots.

Focus	Australian Curriculum Links	Learning Objectives
<b>Sorting and Grouping 2D Shapes</b> <i>Measurement &amp; Geometry</i>	ACMNA005, ACMMG022	<ul style="list-style-type: none"> <li>Count the number of sides and corners on basic 2D shapes.</li> <li>Recognise the difference between straight and curved sides.</li> <li>Match 2D shapes to their names.</li> <li>Identify whether shapes are 2D or 3D.</li> </ul>



## ABC Mathseeds lessons to assign

### Lesson 52: Sorting and / Grouping 2D Shapes Number & Algebra

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.

## Additional ABC Mathseeds resources

Further extend your students' learning with these related Mathseeds activities, interactives, books and resources.

### Lesson 52: Sorting and Grouping 2D Shapes

Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>2D shapes Unit 2</b>	<ul style="list-style-type: none"> <li>Sides and Corners</li> <li>Shapes</li> <li>Circle</li> <li>Playing with Shapes</li> <li>3D</li> </ul>	<ul style="list-style-type: none"> <li>Sorting Shapes</li> <li>2D Shapes</li> </ul>	<b>Worksheet 1</b> – Sides and corners <b>Worksheet 2</b> – Vocabulary <b>Worksheet 3</b> – Shape sort <b>Worksheet 4</b> – Check

## Activity 2: Plant your seed

### Context

In this activity students build on their knowledge of mass and capacity. Students work through a series of questions which aid the development of their understanding and skills in regards to identifying objects that are heavy, light, full and empty.

**Complete  
in week  
1 of the  
project**

### Project task:

Work with your students to plant, water their seeds and place them in a location where they will get sunlight.

Focus	Australian Curriculum Links	Learning Objectives
<b>Mass</b>	ACMMG038, ACMNA015	<ul style="list-style-type: none"> <li>Identify items which are heavy and light.</li> <li>Use a balance scale to sort items by weight.</li> <li>Understand that if the scale balances they weigh the same.</li> </ul>
<b>Capacity</b>	ACMMG019, ACMNA015	<ul style="list-style-type: none"> <li>Measure capacity in informal units.</li> <li>Use smaller containers to measure the capacity of larger containers.</li> <li>Identify which containers are best for measuring capacity.</li> </ul>



## ABC Mathseeds lessons to assign

<b>Lesson 73: Mass Measurement &amp; Geometry</b>	Compare and order which is heavier or lighter. Use comparative language: heavy, heavier, heaviest, light, lighter, lightest, balance.
<b>Lesson 89: Capacity 2 Measurement &amp; Geometry</b>	Using 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.

## Additional ABC Mathseeds resources

Further extend your students' learning with these related ABC Mathseeds activities, interactives, books and resources.

Lesson 73: Mass			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Mass Unit 1</b>	<ul style="list-style-type: none"> <li>Which one is heavier?</li> <li>Let's Measure</li> <li>Heavy or light?</li> <li>Mass</li> <li>Measurement</li> </ul>	<ul style="list-style-type: none"> <li>Weight</li> </ul>	<b>Worksheet 1</b> – Heavy and light <b>Worksheet 2</b> – Balance scales <b>Worksheet 3</b> – Weighing the same <b>Worksheet 4</b> – Check
Lesson 89: Capacity			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Volume and Capacity Unit 2</b>	<ul style="list-style-type: none"> <li>You can Measure</li> <li>Let's Measure</li> </ul>	<ul style="list-style-type: none"> <li>Capacity</li> </ul>	<b>Worksheet 1</b> – Choosing units <b>Worksheet 2</b> – Estimating capacity <b>Worksheet 3</b> – Informal measurement <b>Worksheet 4</b> – Check

## Activity 3: Tracking your plant - watering

### Context

This activity builds on students existing knowledge of time and the seasons. Students work through a series of different activities recognising numbers and telling the time on analogue and digital clocks. They also refresh their memories of the days of the week, along with estimating the length of time activities will take. Students will then use these skills in the context of tracking their plant.

**Complete in week 1 of the project**

### Project task:

Work with your students to determine a watering schedule for their plants. This is important as they will need to keep track of how often they water their plant.

Focus	Australian Curriculum Links	Learning Objectives
<b>O'Clock</b> <i>Measurement &amp; Geometry</i>	ACMMG007, ACMMG020, ACMMG021	<ul style="list-style-type: none"> <li>Tell time to the hour using the word o'clock.</li> <li>Identify which number on an analogue clock tells the hour.</li> <li>Show where the minute and hour hands should be to tell time to the hour.</li> </ul>
<b>O'Clock and Half-Past</b> <i>Measurement &amp; Geometry</i>	ACMMG020, ACMNA013, ACMNA289	<ul style="list-style-type: none"> <li>Recognise digital time on the hour using :00.</li> <li>Identify half-past times on analogue clocks.</li> <li>Read times on the hour and half-past written in words.</li> </ul>

### ABC Mathseeds lessons to assign

<b>Lesson 54: O'Clock</b> <i>Measurement &amp; Geometry</i>  <b>Lesson 70: O'Clock and Half-Past</b> <i>Measurement &amp; Geometry</i>	<p>Tell and write time in hours and half-hours. Use analogue and digital clocks. Use comparative language: longer time, shorter time.</p>
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### Additional ABC Mathseeds resources

Further extend your students' learning with these related ABC Mathseeds activities, interactives, books and resources.

Lesson 54: O'Clock			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Time</b> <b>Unit 2</b>	<ul style="list-style-type: none"> <li>O'Clock</li> <li>Let's Measure</li> <li>The dots</li> <li>O'Clock clocks</li> <li>What time is it?</li> </ul>	<ul style="list-style-type: none"> <li>The seasons O'Clock</li> </ul>	<b>Worksheet 1</b> – O'Clock <b>Worksheet 2</b> – Clocks <b>Worksheet 3</b> – Time <b>Worksheet 4</b> – Check

Lesson 70: O'Clock and Half-Past			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Time</b> <b>Unit 2</b>	<ul style="list-style-type: none"> <li>More time, less time</li> <li>What time is it?</li> <li>Time</li> <li>Clocks</li> </ul>	<ul style="list-style-type: none"> <li>Digital time</li> </ul>	<b>Worksheet 1</b> – Digital time <b>Worksheet 2</b> – Half-past <b>Worksheet 3</b> – Time <b>Worksheet 4</b> – Check

## Activity 4: Tracking your plant - height

### Context

This activity looks at the concept of length. Students work through a series of activities where they will build skills around measuring length and differentiating items by size.

**Complete  
over weeks  
2-8 of the  
project**

Focus	Australian Curriculum Links	Learning Objectives
<b>Measuring Length</b> <i>Measurement &amp; Geometry</i>	ACMMG019, ACMNA012	<ul style="list-style-type: none"> <li>Measure length using uniform units (blocks).</li> <li>Compare lengths based on measurements.</li> </ul>

### ABC Mathseeds lessons to assign

#### Lesson 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.

### Additional ABC Mathseeds resources

Further extend your students' learning with these related ABC Mathseeds activities, interactives, books and resources.

Lesson 84: Measuring Length			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Length</b> Unit 2	<ul style="list-style-type: none"> <li>Measuring Length</li> <li>Length</li> <li>How Long?</li> <li>You Can measure</li> <li>Let's Measure</li> </ul>	<ul style="list-style-type: none"> <li>Length</li> </ul>	<b>Worksheet 1</b> – Sort by length <b>Worksheet 2</b> – Measure length <b>Worksheet 3</b> – Compare lengths <b>Worksheet 4</b> – Check

## Activity 5: How many?

### Context

This activity introduces the concept of data, along with reinforcing addition and subtraction skills. Students work through a series of activities where they will solve addition with 3 whole numbers, and learn how to represent data using tally marks.

**Complete  
in week 6  
or 7 of the  
project**

Focus	Australian Curriculum Links	Learning Objectives
<b>Data</b> <i>Statistics &amp; Probability</i>	ACMSP263, ACMSP049, ACMSP050	<ul style="list-style-type: none"> <li>Equate tally marks with numerals.</li> <li>Fill a picture graph to match given data.</li> <li>Use a picture graph to answer questions.</li> </ul>
<b>Addition to 10 with Two and Three groups</b> <i>Number &amp; Algebra</i>	ACMNA013, ACMNA015	<ul style="list-style-type: none"> <li>Add three groups on a number line.</li> <li>Add to 10 on the number line.</li> <li>Use the addition equation.</li> </ul>
<b>Addition to 20</b> <i>Number &amp; Algebra</i>	ACMNA015, ACMNA012, ACMNA014	<ul style="list-style-type: none"> <li>Count on from the largest number to add.</li> <li>Count on using objects and a number line.</li> <li>Add to 20.</li> </ul>

### ABC Mathseeds lessons to assign

<b>Lesson 97: Data 2</b> <i>Statistics &amp; Probability</i>	Represent data with objects and drawings. Sort data and represent using tally marks. Understanding one-to-one correspondence. Answer questions about data.
<b>Lesson 51: Addition to 10 with Two and Three groups</b> <i>Number &amp; Algebra</i>	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.
<b>Lesson 65: Addition to 20</b> <i>Number &amp; Algebra</i>	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.

### Additional ABC Mathseeds resources

Further extend your students' learning with these related ABC Mathseeds activities, interactives, books and resources.

Lesson 97: Data 2			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Data</b> Unit 1	<ul style="list-style-type: none"> <li>Tallies and tables</li> <li>Picture Graphs</li> <li>Graphs</li> </ul>	<ul style="list-style-type: none"> <li>Tally marks</li> <li>Data</li> </ul>	<b>Worksheet 1</b> – Tally marks <b>Worksheet 2</b> – Data tables <b>Worksheet 3</b> – Picture graphs <b>Worksheet 4</b> - Check

Lesson 51: Addition to 10 with Two and Three groups			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Addition</b> Unit 1	<ul style="list-style-type: none"> <li>Add Three Groups</li> <li>Add to Ten</li> <li>Add on a Number</li> <li>Line</li> </ul>	<ul style="list-style-type: none"> <li>Addition Strategies</li> </ul>	<b>Worksheet 1</b> – Count on <b>Worksheet 2</b> – Number lines <b>Worksheet 3</b> – Addition <b>Worksheet 4</b> - Check

Lesson 65: Addition to 20			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Addition</b> Unit 2	<ul style="list-style-type: none"> <li>Zoo trip</li> <li>Add to Ten</li> <li>Adding</li> <li>Add on a Number</li> <li>Line</li> <li>Count on</li> </ul>	<ul style="list-style-type: none"> <li>Addition Strategies</li> </ul>	<b>Worksheet 1</b> – Count on <b>Worksheet 2</b> – Number lines <b>Worksheet 3</b> – Fluent addition <b>Worksheet 4</b> - Check

## Activity 6: Position

### Context

In this activity students focus on measurement and geometry, specifically position. Students work through activities that help develop an understanding of position vocabulary and use this vocabulary to follow instructions.

Complete  
in week  
8 of the  
project

### Project task:

The first task in Activity 6 (Step 6 in the student workbook) requires the teacher to guide their students around a map with the following steps.

1. From 'START' move down 2 squares.
2. Move right 1 square.
3. Move down 1 square.
4. Move right 2 squares.
5. Move up 3 squares.
6. Move left 1 square.
7. Move down 1 square.

Focus	Australian Curriculum Links	Learning Objectives
<b>Position</b> <i>Measurement &amp; Geometry</i>	ACMMG023, ACMMG022, ACMNA012, ACMNA013	<ul style="list-style-type: none"> <li>Recognise and comprehend position words.</li> <li>Follow instructions using position vocabulary.</li> </ul>
<b>Position part 2</b> <i>Measurement &amp; Geometry</i>	ACMMG023, ACMNA013	<ul style="list-style-type: none"> <li>Recognise how to tell left from right.</li> <li>Identify left and right.</li> <li>Follow verbal directions as to position and movement.</li> </ul>
<b>Position part 3</b> <i>Measurement &amp; Geometry</i>	ACMMG023, ACMNA015	<ul style="list-style-type: none"> <li>Review position vocabulary.</li> <li>Identify clockwise and anticlockwise turns.</li> <li>Follow directions.</li> </ul>

### ABC Mathseeds lessons to assign

#### Lesson 57: Position 1 *Measurement & Geometry*

#### Lesson 78: Position 2 *Measurement & Geometry*

#### Lesson 94: Position 3 *Measurement & Geometry*

Follow directions to familiar locations. Understand position words when giving and following directions; right, left, above, below, next to, between, forward, under.

Follow directions to familiar locations. Understand position words when giving and following directions; right, left, above, below, next to, between, forward, under, clockwise, anticlockwise.



### Additional ABC Mathseeds resources

Further extend your students' learning with these related ABC Mathseeds activities, interactives, books and resources.

#### Lesson 57: Position 1

Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Location</b> Unit 1	<ul style="list-style-type: none"> <li>Where am I?</li> <li>Position and Movement</li> <li>A Spot for Everything</li> <li>Where is the Treasure?</li> </ul>	<ul style="list-style-type: none"> <li>Position</li> </ul>	<b>Worksheet 1</b> – Vocabulary <b>Worksheet 2</b> – Position <b>Worksheet 3</b> – Following instructions <b>Worksheet 4</b> – Check

#### Lesson 78: Position 2

Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Location</b> Unit 1	<ul style="list-style-type: none"> <li>Find the Treasure</li> <li>Position and Movement</li> <li>Where am I?</li> <li>Find Your Way</li> <li>Where is the Treasure?</li> </ul>	<ul style="list-style-type: none"> <li>Position (left and right)</li> </ul>	<b>Worksheet 1</b> – Left and right <b>Worksheet 2</b> – Vocabulary <b>Worksheet 3</b> – Following directions <b>Worksheet 4</b> – Check

#### Lesson 94: Position 3

Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Location</b> Unit 1	<ul style="list-style-type: none"> <li>Position</li> <li>Find the Treasure</li> <li>The Very Best Spot for Hiding</li> <li>Find Your Way</li> <li>Position and Movement</li> </ul>	<ul style="list-style-type: none"> <li>Turns</li> </ul>	<b>Worksheet 1</b> – Recognising turns <b>Worksheet 2</b> – Position vocabulary <b>Worksheet 3</b> – Following directions <b>Worksheet 4</b> – Check



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