



# Pot Plant Project

Teacher Workbook

— Year 2 —



1300 850 331



customerservice@3plearning.com.au



www.3plearning.com/mathseeds





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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.

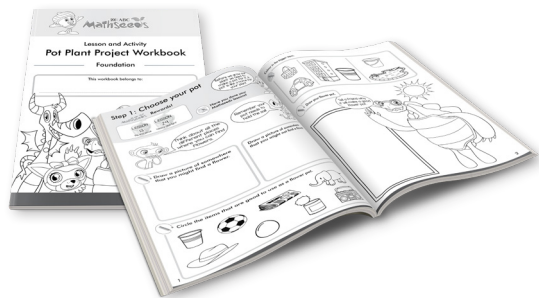
### What's in the Student Workbook?

- **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

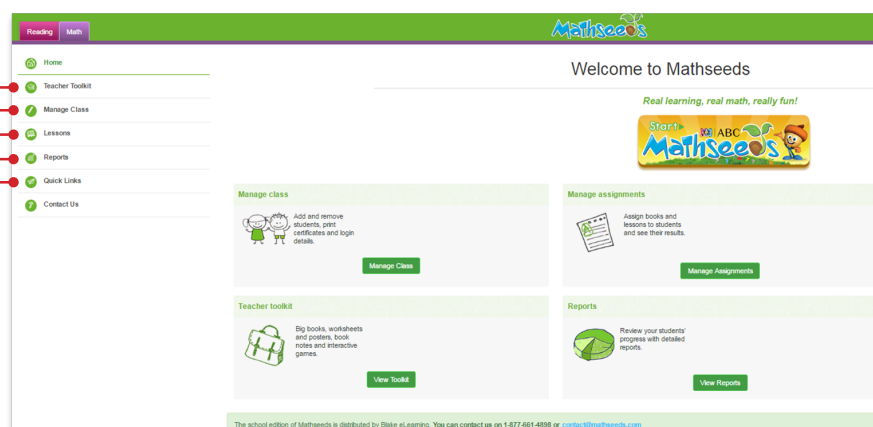
Here you can preview all of the lessons on the Mathseeds program. You also have access to downloadable lesson plans and student worksheets for each lesson. You can also manage classes and assign books and lessons to students and view quiz results.

### 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

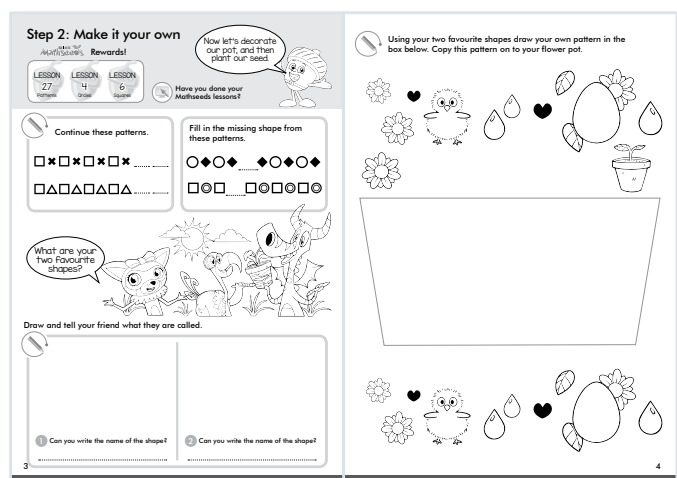
Every lesson ends with an e-book that includes full audio support. These books reiterate the main lesson points and are designed to consolidate new concepts and skills.

#### 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 selected. The main area is titled 'Manage Assignments' and contains a table with two tabs: 'Current Assignments' (active) and 'Past Assignments'. Above the table are buttons for '+ Create a New Assignment' and 'Print'. The table has columns: Assignment Title, Assigned by, Start Date, Due Date, Status, Students Completed, Av. Score %, and an action column. Three lessons are listed: Lesson 57, Lesson 3, and Lesson 61, all assigned by 'Me' and 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.



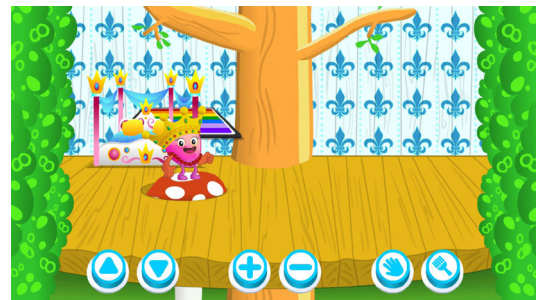
- **Building their own avatar**

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.



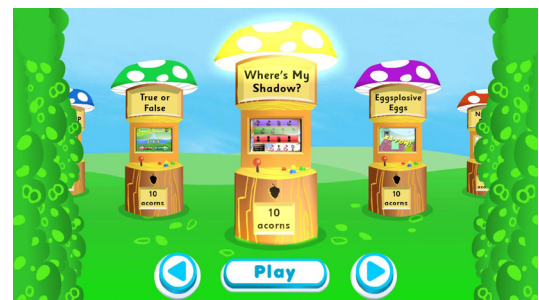
- **Designing their Treehouse**

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**

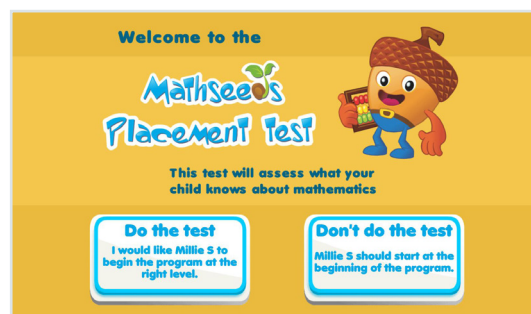
Each activity in the Student Workbook has a designated sticker space. We encourage you to recognise your students progress and achievements at the completion of each workbook activity by rewarding them with an achievement sticker to complete their activity page.

## Using ABC Mathseeds outside of the Pot Plant Project

ABC Mathseeds provides teachers with an academically rigorous maths program that students love, and outside of the Pot Plant Project there are many other great ways the program can be implemented into your classroom teaching and learning.

### 1 Differentiate your students' learning

The ABC Mathseeds placement test places each student where they need to be, meaning that struggling students can build their basic skills while higher-ability students can extend and deepen their understanding and problem-solving skills. Teachers also have the flexibility to change students' levels at any point in time and can set specific groups of students tasks based on specific needs.



### 2 Complement your numeracy program

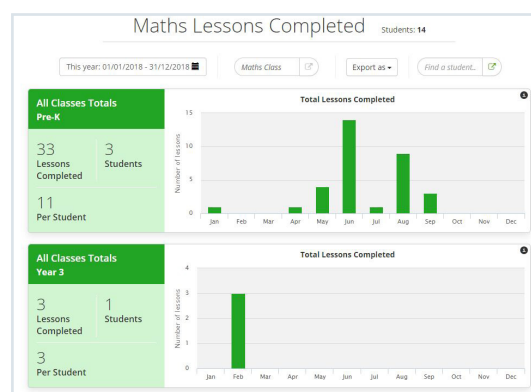
All the content available within ABC Mathseeds is aligned to the Australian Curriculum, and with comprehensive curriculum maps located in the **Teacher Toolkit** we make it super easy for you to find a specific lesson to match your learning outcome. The program can be used to both introduce a new mathematical concept to your entire class in a front-of-class approach, or to reinforce and consolidate existing skills and knowledge.



Lesson	Maths	English	Science	History	Geography	Health and Physical Education	Art and Design	Music	Technology
Lesson 1: Understanding of counting to 100	ACM0001	ACEL0001	ACSC0001	ACHG0001	ACGG0001	ACHP0001	ACAD0001	ACMU0001	ACTE0001
Lesson 2: Addition and subtraction within 100	ACM0002	ACEL0002	ACSC0002	ACHG0002	ACGG0002	ACHP0002	ACAD0002	ACMU0002	ACTE0002
Lesson 3: Multiplication and division within 100	ACM0003	ACEL0003	ACSC0003	ACHG0003	ACGG0003	ACHP0003	ACAD0003	ACMU0003	ACTE0003
Lesson 4: Fractions and decimals	ACM0004	ACEL0004	ACSC0004	ACHG0004	ACGG0004	ACHP0004	ACAD0004	ACMU0004	ACTE0004
Lesson 5: Geometry and measurement	ACM0005	ACEL0005	ACSC0005	ACHG0005	ACGG0005	ACHP0005	ACAD0005	ACMU0005	ACTE0005
Lesson 6: Data and statistics	ACM0006	ACEL0006	ACSC0006	ACHG0006	ACGG0006	ACHP0006	ACAD0006	ACMU0006	ACTE0006
Lesson 7: Financial literacy	ACM0007	ACEL0007	ACSC0007	ACHG0007	ACGG0007	ACHP0007	ACAD0007	ACMU0007	ACTE0007
Lesson 8: Environmental literacy	ACM0008	ACEL0008	ACSC0008	ACHG0008	ACGG0008	ACHP0008	ACAD0008	ACMU0008	ACTE0008
Lesson 9: Digital literacy	ACM0009	ACEL0009	ACSC0009	ACHG0009	ACGG0009	ACHP0009	ACAD0009	ACMU0009	ACTE0009
Lesson 10: Global literacy	ACM0010	ACEL0010	ACSC0010	ACHG0010	ACGG0010	ACHP0010	ACAD0010	ACMU0010	ACTE0010

### 3 Assess and monitor students numeracy progress

ABC Mathseeds makes it very easy for you to continuously be on top of your students' progress and performance by providing instant feedback on student growth and achievements in our comprehensive suite of instant reports. The program has been designed in a way that provides multiple informal assessment opportunities through its variety of engaging interactive activities, meaning your students are being assessed without you needing to do a thing. How fantastic!



## 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

In this activity students develop an understanding of the difference between a flip, slide and turn with 2D shapes. Students work through a series of activities to help students recognise the different movements a shape can make.

**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
Moving Shapes	ACMMG045, ACMMG046, ACMMG042	<ul style="list-style-type: none"> <li>Identify flips, slides and turns with 2D shapes.</li> <li>Differentiate between a quarter turn and a half turn.</li> </ul>

### ABC Mathseeds lessons to assign

#### Lesson 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.



### Additional ABC Mathseeds resources

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

Lesson 102: Moving Shapes			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets (Student PDF)
<b>Transformation Unit 1</b>	<ul style="list-style-type: none"> <li>• Flip, slide or turn</li> <li>• Position and Movement</li> <li>• Shapes</li> </ul>	<ul style="list-style-type: none"> <li>• Flip, Slide and Turn</li> <li>• 2D Shape</li> <li>• Movements</li> </ul>	<b>Worksheet 1</b> – Flip <b>Worksheet 2</b> – Slide <b>Worksheet 3</b> – Turns <b>Worksheet 4</b> – Check

### Activity 2: Plant your seed

#### Context

In this activity students are introduced to the concept of volume. They work through a series of activities that will help them to understand volume including using boxes to measure volume and being able to differentiate items by volume.

**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>Volume</b> <i>Measurement &amp; Geometry</i>	ACMMG037, ACMNA027, ACMNA028	<ul style="list-style-type: none"> <li>• Understand that volume is the amount of space an item takes up.</li> <li>• Recognise differences in volumes of items</li> <li>• Count cubes to find volumes.</li> </ul>

### ABC Mathseeds lessons to assign

<b>Lesson 116: Volume</b> <i>Measurement &amp; Geometry</i>	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.
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### Additional ABC Mathseeds resources

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

Lesson 116: Volume			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets (Student PDF)
<b>Volume and Capacity Unit 1</b>	<ul style="list-style-type: none"> <li>• Big bags, small bags</li> <li>• Volume</li> <li>• The Biggest Smallest Dinosaur</li> </ul>	<ul style="list-style-type: none"> <li>• Volume</li> </ul>	<b>Worksheet 1</b> – Volume <b>Worksheet 2</b> – Sort by Volume <b>Worksheet 3</b> – Counting Cubes <b>Worksheet 4</b> – Check



### Activity 3: Tracking your plant - calendar

#### Context

This activity looks at the calendar. Students work through a series of activities enabling them to recognise the months and days of the week, in their correct orders. These skills are used to help them track their plant.

**Complete  
over weeks  
2-8 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>The Calendar</b> <i>Measurement &amp; Geometry</i>	ACMMG041, ACMMG040, ACMSP047	<ul style="list-style-type: none"> <li>Know the months and days of the week.</li> <li>Recognise correct month order.</li> <li>Understand how to find a date on a calendar.</li> </ul>

#### ABC Mathseeds lessons to assign

##### Lesson 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.

#### Additional ABC Mathseeds resources

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

Lesson 109: The Calendar			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Time</b> Unit 3	<ul style="list-style-type: none"> <li>Months</li> <li>Time</li> <li>Special Days</li> <li>Calendar</li> </ul>	<ul style="list-style-type: none"> <li>The Calendar</li> <li>The Seasons</li> </ul>	<b>Worksheet 1</b> – Month <b>Worksheet 2</b> – Weeks and days <b>Worksheet 3</b> – Using a calendar <b>Worksheet 4</b> – Check

### Activity 4: Tracking your plant - length

#### Context

In this activity students revisit the topic of length and measurement, using both informal and formal units of measurement to measure length. They are introduced to the concept of the metre, and then move on to centimetres, along with developing skills around identifying parallel lines, and problem-solving. These skills are reinforced in the workbook activities.

**Complete  
in week 4  
or 5 of the  
project**

Focus	Australian Curriculum Links	Learning Objectives
<b>Measuring</b> <i>Measurement &amp; Geometry</i>	ACMMG037, ACMMG061, ACMMG044	<ul style="list-style-type: none"> <li>Identify the words 'one metre' and the abbreviation 1m.</li> <li>Compare lengths to 1 metre.</li> <li>Measure items using 1 m rulers.</li> </ul>
<b>Measuring centimetres</b> <i>Measurement &amp; Geometry</i>	ACMMG037, ACMMG061	<ul style="list-style-type: none"> <li>Measure the lengths of items in centimetres using a ruler.</li> <li>Find the difference in length between two items using centimetres.</li> </ul>
<b>Word Problems: Length</b> <i>Measurement &amp; Geometry</i>	ACMMG042, ACMMG022	<ul style="list-style-type: none"> <li>Look for clue words and numbers.</li> <li>Work backwards to solve the problems.</li> <li>Find answers in appropriate units.</li> </ul>

### ABC Mathseeds lessons to assign

<b>Lesson 104: Measuring</b> <i>Measurement &amp; Geometry</i>	Estimate lengths using metres. Measure lengths using metres. Compare lengths. Use comparative language: more than 1m; 1m; less than 1m.
<b>Lesson 126: Measuring Centimetres</b> <i>Measurement &amp; Geometry</i>	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.
<b>Lesson 141: Word Problems: Length</b> <i>Measurement &amp; Geometry</i>	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.

### Additional ABC Mathseeds resources

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

Lesson 104: Measuring			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Length</b> Unit 3	<ul style="list-style-type: none"> <li>Metres</li> <li>Measuring Length</li> <li>Length</li> <li>Measurement</li> </ul>	<ul style="list-style-type: none"> <li>Metric Length Measurements</li> </ul>	<b>Worksheet 1</b> – One metre <b>Worksheet 2</b> – Comparing lengths <b>Worksheet 3</b> – Measuring with metres <b>Worksheet 4</b> – Check

Lesson 126: Measuring Centimetres			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Length</b> Unit 3	<ul style="list-style-type: none"> <li>Centimetres</li> <li>Measurement</li> <li>Metres</li> </ul>	<ul style="list-style-type: none"> <li>Metric Length Measurements</li> <li>Length</li> </ul>	<b>Worksheet 1</b> – Centimetres <b>Worksheet 2</b> – Measure in centimetres <b>Worksheet 3</b> – Difference in length <b>Worksheet 4</b> – Check

### Lesson 141: Word problems: Length

Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Length Unit 3</b>	<ul style="list-style-type: none"> <li>Length Problems</li> <li>Two-digit Numbers</li> <li>Measurement</li> <li>Working Backwards</li> <li>How to Solve a Problem</li> </ul>	<ul style="list-style-type: none"> <li>Metric Length Measurements</li> <li>Problem Solving - Working Backwards</li> </ul>	<b>Worksheet 1</b> – Use an equation <b>Worksheet 2</b> – Draw a diagram <b>Worksheet 3</b> – Work backwards <b>Worksheet 4</b> – Word problems

### Activity 5: Data

#### Context

In this activity students focus on collecting and interpreting data. They complete a series of activities where they will work through the process of creating their own picture graph. Students use their existing knowledge of length to assist in these activities.

**Complete  
in week 5  
or 6 of the  
project**

Focus	Australian Curriculum Links	Learning Objectives
<b>Comparing Lengths using Data</b> <i>Statistics &amp; Probability</i>	ACMMG061, ACMSP069, ACMSP070	<ul style="list-style-type: none"> <li>Measure lengths in metres.</li> <li>Fill in a column graph to show the measurements.</li> <li>Interpret the data in the graph.</li> </ul>

#### ABC Mathseeds lessons to assign

#### Lesson 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.

#### Additional ABC Mathseeds resources

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

### Lesson 143: Comparing Lengths using Data

Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Length Unit 3</b>	<ul style="list-style-type: none"> <li>Comparing Length</li> <li>Centimetres</li> <li>Measuring Length</li> <li>Metres</li> <li>Measurement</li> <li>Column Graphs</li> <li>Length</li> </ul>	<ul style="list-style-type: none"> <li>Metric Length Measurement</li> <li>Column Graph</li> </ul>	<b>Worksheet 1</b> – Collect data <b>Worksheet 2</b> – Make a graph <b>Worksheet 3</b> – Read a graph <b>Worksheet 4</b> – Check

## Activity 6: Numbers - multiplication & division

### Context

In this activity students focus on numbers, in particular multiplication and division of numbers. Students work through a series of activities where they build skills around grouping and dividing and solve some simple equations. Students use these skills to complete the workbook activities which links back to the class Pot Plant Project.

**Complete  
in week 7  
or 8 of the  
project**

Focus	Australian Curriculum Links	Learning Objectives
<b>Multiplying Groups</b> <i>Number &amp; Algebra</i>	ACMNA031, ACMNA057, ACMNA026	<ul style="list-style-type: none"> <li>Make multiplication equations using the <math>\times</math> sign.</li> <li>Put the number of groups and the number in each group into an <math>\times</math> sum.</li> <li>Find the answer to multiplication sums.</li> </ul>
<b>The Division Sign</b> <i>Number &amp; Algebra</i>	ACMNA032	<ul style="list-style-type: none"> <li>Be introduced to the division sign <math>\div</math> and division equations.</li> <li>Use a number line to divide a number.</li> </ul>

### ABC Mathseeds lessons to assign

<b>Lesson 115: Multiplying Groups</b> <i>Number &amp; Algebra</i>	Recognise multiplication as repeated addition, groups and arrays. Write an equation using signs: $\times$ , $=$ . Use language of multiplication: groups of, multiply. Multiply groups by 1, 2, 3, 4, 5.
<b>Lesson 136: The Division Sign</b> <i>Number &amp; Algebra</i>	Use the division sign. Share items between groups and divide using a number line.

### Additional ABC Mathseeds resources

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

Lesson 115: Multiplying groups			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Multiplication Unit 2</b>	<ul style="list-style-type: none"> <li>Multiplying</li> <li>Equal groups</li> <li>Multiplication and Division</li> </ul>	<ul style="list-style-type: none"> <li>Multiplication</li> <li>Multiplication (repeated addition)</li> </ul>	<b>Worksheet 1</b> – Multiplication sign <b>Worksheet 2</b> – Multiplying <b>Worksheet 3</b> – Missing numbers <b>Worksheet 4</b> - Word problems

Lesson 136: The Division Sign			
Targeting Maths Lower Primary	Big Books	Posters	Worksheets
<b>Number Facts Unit 2</b>	<ul style="list-style-type: none"> <li>The division sign</li> <li>Making groups</li> <li>Sharing</li> <li>Sharing into rows</li> <li>Multiplication and Division</li> </ul>	<ul style="list-style-type: none"> <li>Division</li> <li>Fair shares</li> </ul>	<b>Worksheet 1</b> – Dividing <b>Worksheet 2</b> – The division sign <b>Worksheet 3</b> – Division sums <b>Worksheet 4</b> - Word problems









A 3P Learning product



1300 850 331



customerservice@3plearning.com.au



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