



# LEARN YOUR WAY

Using the **Diagnostic Assessment** tool - click on an option below

1. I want to watch short how-to videos for every stage
2. I want to read the step-by-step instructions with screenshots to guide me – Start here
3. I would like to request a PD session for my teachers
4. I want to dive right in – Start here



[cambridge.edu.au/diagnostictool](https://cambridge.edu.au/diagnostictool)

## ESSENTIAL MATHEMATICS

FOR THE AUSTRALIAN CURRICULUM  
FOURTH EDITION

## ESSENTIAL MATHEMATICS CORE

FOR THE AUSTRALIAN CURRICULUM  
SECOND EDITION

## ESSENTIAL MATHEMATICS

FOR THE VICTORIAN CURRICULUM  
THIRD EDITION

## ESSENTIAL MATHEMATICS CORE

FOR THE VICTORIAN CURRICULUM  
SECOND EDITION

## Cambridge**MATHS** **NSW**

THIRD EDITION

## ESSENTIAL MATHEMATICS

FOR THE WA CURRICULUM

☰ Test families
📋 Manage assigned tests / Assign follow-up work
📊 Reports
✎ Test edit

- 1 Create a Test Family
- 2 Add a pre-test
- 3 Name your test and choose to add questions manually or with the Wizard

Add pre/mid test to this family

3 \* Name:

Description:

Add questions:

\* How to add questions:

Course Content >
Diagnostics

☰ Test families
📋 Manage assigned tests / Assign follow-up work
📊 Reports
✎ Test edit

Search by name or description  🔍

**Test families (19)**

| Name          | Test details                         | Created                      | Description | Status       | Post-test     | Type   | Action                                  |
|---------------|--------------------------------------|------------------------------|-------------|--------------|---------------|--------|---|
| ▼ Demo Term 2 | 2 pre/mid-test<br>36 questions total | Caroline Poole<br>26/09/2024 |             | 2/2 assigned | Not generated | Family | <span>+</span> TEST <span>📄</span> POST |
| ▼ Division    | 1 pre/mid-test<br>36 questions total | Caroline Poole<br>23/09/2024 |             | 0/2 assigned | Generated     | Family | <span>+</span> TEST <span>📄</span> POST |
| ▼ Fractions   | 1 pre/mid-test<br>0 questions total  | Caroline Poole<br>12/09/2024 |             | 0/1 assigned | Not generated | Family | <span>+</span> TEST <span>📄</span> POST |
| ▼ Fractions   | 1 pre/mid-test<br>32 questions total | Caroline Poole<br>04/09/2024 |             | 0/2 assigned | Generated     | Family | <span>+</span> TEST <span>📄</span> POST |
| ▼ Fractions   | 1 pre/mid-test<br>40 questions total | Caroline Poole<br>30/08/2024 |             | 0/2 assigned | Generated     | Family | <span>+</span> TEST <span>📄</span> POST |

< 1 2 3

1
+ Test Family
Assign
Copy
Share
Archive
Print
Answer Key
Archive All

**What is a Test family?** Teachers can choose the parameters of the unit of work in their family of tests. Cover a whole term, a textbook chapter or a selection of skills. Set as many pre- or mid-tests as you require in this unit of work before generating a post-test based on the skills covered.

 Test families

 Manage assigned tests / Assign follow-up work

 Reports

 **Test edit**

4 Choose the difficulty ratio and number of questions

5 Select the mathematical skills to cover. Make your selection using:  
[Textbook view](#) | [Curriculum view](#)

6 Click **Generate**

### Details

\* Name

Pre-test 1


Description

Decimals part 1


### Questions

Choose the question level breakdown for your test. ?


#### Pick your difficulty ratio




Mostly easy;  
some medium  
(3 : 1)



All medium



Balanced mix  
(1 : 2 : 1)



Mostly medium;  
some hard  
(3 : 1)

A test must have at least 4 and not exceed 100 questions.

Number of questions: 20

[Textbook](#) Curriculum

#### CambridgeMATHS NSW Stage 4 Year 7 Third Edition

- ▶ Chapter 1: Computation with positive integers
- ▶ Chapter 2: Number properties and patterns
- ▶ Chapter 3: Fractions and percentages
- ▶ Chapter 4: Algebraic techniques
- ▼ Chapter 5: Decimals
  - 5  5A Place value in decimals and ordering decimals (Consolidating)
    - Understanding decimal place value
    - Converting fractions to decimals
    - Ordering decimal numbers
  - ▶  5B Rounding decimals
  - ▶  5C Addition and subtraction of decimals (Consolidating)
  - ▶  5D Multiplying and dividing decimals by 10, 100, 1000, etc.
  - ▶  5E Multiplying decimals
  - ▶  5F Dividing decimals
  - ▶  5G Connecting decimals and fractions
  - ▶  5H Connecting decimals and percentages

6 **Generate**



VIEW ONLINE ARTICLE

## STEP 3 REFINE YOUR QUESTION SELECTION (OPTIONAL)

 Test families

 Manage assigned tests / Assign follow-up work

 Reports

 Test edit

7 Choose to search for and add more questions with the +

8 Save your test

### Details

Name: Pre-test 1      Description: Decimals part 1  
 Test type: Test

### Search

Textbook: CambridgeMATHS NSW Stage 4 Year 7 Third Edition  
 Chapter: Chapter 5: Decimals  
 Section: 5E Multiplying decimals

Skills:
 

- Estimating decimal products
- Multiplying a decimal by a whole number
- Multiplying a decimal by a decimal
- Multiplying a decimal by multiples of 10

Filter by: Difficulty level: All

Search results (5 questions)

| Question ID | Level   | Code         | Topic                                   |
|-------------|---------|--------------|---|
| #1          | Level 1 | MA4-FRC-C-01 | Multiplying a decimal by a whole number |
| #2          | Level 1 | MA4-FRC-C-01 | Multiplying a decimal by a whole number |
| #3          | Level 2 | MA4-FRC-C-01 | Multiplying a decimal by a whole number |
| #4          | Level 2 | MA4-FRC-C-01 | Multiplying a decimal by a whole number |

Pre-test 1: 11 marks from 11 questions

- Converting fractions to decimals
- Converting fractions to decimals
- Ordering decimal numbers

## STEP 4 ASSIGN TO YOUR CLASS(ES)

☰ Test families
📋 Manage assigned tests / Assign follow-up work
📊 Reports
✎ Test edit

9 Check the box next to your test and click Assign

10 Choose the Format | Start and End Date and Time

10 Assign Test

Choose format:  One sitting  Multiple sittings

\* Start date:

\* End date:

Allow students to view results:  Yes  No

Message for students:

Recipient:  Classes  Students in Class

\* Classes:

☰ Test families 📋 Manage assigned tests / Assign follow-up work 📊 Reports ✎ Test edit

Search by name or description

Test families (18)

| <input type="checkbox"/>            | Name          | Test details                          | Created                      | Description     | Status                  | Post-test     | Type    | Action  |
|-------------------------------------|---------------|---------------------------------------|------------------------------|-----------------|-------------------------|---------------|---------|---|
| <input checked="" type="checkbox"/> | ^ Demo Term 2 | 1 pre/mid-tests<br>11 questions total | Caroline Poole<br>26/09/2024 |                 | 0/1 assigned            | Not generated | Family  | <input type="button" value="+ TEST"/> <input type="button" value="POST"/> <input type="button" value="🗑️"/> |
| <input checked="" type="checkbox"/> | Pre-test 1    | 11 questions total                    | Caroline Poole<br>25/10/2024 | Decimals part 1 | unassigned (archived)   |               | Pre/mid | <input type="button" value="✎"/> <input type="button" value="🗑️"/>  |
| <input type="checkbox"/>            | ∨ Fractions 1 | 2 pre/mid-test<br>26 questions total  | Caroline Poole<br>20/09/2024 |                 | 0/2 assigned (archived) | Not generated | Family  | <input type="button" value="+ TEST"/> <input type="button" value="POST"/> <input type="button" value="🗑️"/> |
| <input type="checkbox"/>            | ∨ Fractions   | 3 pre/mid-test<br>64 questions total  | Caroline Poole<br>20/09/2024 | in class        | 0/3 assigned (archived) | Not generated | Family  | <input type="button" value="+ TEST"/> <input type="button" value="POST"/> <input type="button" value="🗑️"/> |
| <input type="checkbox"/>            | ∨ Post Test   | 1 pre/mid-test<br>19 questions total  | Caroline Poole<br>20/09/2024 | In class test   | 0/1 assigned (archived) | Not generated | Family  | <input type="button" value="+ TEST"/> <input type="button" value="POST"/> <input type="button" value="🗑️"/> |
| <input type="checkbox"/>            | ∨ Fractions   | 2 pre/mid-test<br>28 questions total  | Caroline Poole<br>19/09/2024 |                 | 0/2 assigned (archived) | Not generated | Family  | <input type="button" value="+ TEST"/> <input type="button" value="POST"/> <input type="button" value="🗑️"/> |

9

### VIEW RESULTS FOR STUDENTS



**Choose to allow students to view results:** For tests assigned as One sitting, results will be available to students after the test end date. For tests assigned as Multiple sittings, students can view results after they submit their test.

# STEP 5 VIEW RESULTS AND ASSIGN FOLLOW-UP WORK

☰ Test families

**📋 Manage assigned tests / Assign follow-up work**

📊 Reports

✎ Test edit

- 1 Click the View Results & Set Follow-Up Work button
- 2 Check the boxes to select follow-up work for each skills/student or use the Wizard\*
- 3 Click Confirm

1 Select Assigned Test      2 View Results and Recommend Follow-up work      3 Follow-up work Summary

### Assigned tests

Search

**Chpt 2 A-C Pre-test** (Demo Term 2, 📄, Assigned: 26/09/2024 By: Caroline Poole)      Start date: 26/09/2024, End date: 31/10/2024

Class: [2024 Maths Poole](#)

100% of students completed      **77%** Average mark

Test completed  Follow-up work set

**Chpt 2 E-F pre-test** (Demo Term 2, 📄, Assigned: 26/09/2024 By: Caroline Poole)      Start date: 26/09/2024, End date: 31/10/2024

Class: [2024 Maths Poole](#)

100% of students completed      **70%** Average mark

Test completed  Follow-up work set

### Student results (Chpt 2 A-C Pre-test)

[Back To Assigned Tests](#)  3

Filter

Student: Anderson, Katherine x Ball, Chloe x McGrath, Simon x + 8 ...      Difficulty: 1 x 2 x 3 x      Aggregate view: Text      Syllabus      Skill

Recommend follow-up work for students       Selection type: Manual  **Wizard**       Limit # of follow-up work to: 1 skills per student.

Chapter 2: Number properties and patterns

2B Highest common factor and lowest common multiple (LCM)       2C Divisibility tests       2D Prime numbers

| Name   | Finding the highest common factor (HCF)  | Finding the lowest common multiple (LCM) | Using divisibility tests                 | Testing to find factors of integers      | Determining whether a number is a prime or composite | Finding prime factors                    | Average |
|--|--|--|--|--|--|--|---------|
| <input type="checkbox"/> Anderson, Katherine | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 25%  | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 100%             | <input checked="" type="checkbox"/> 100% | 88%     |
| <input type="checkbox"/> Ball, Chloe         | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 50%  | <input checked="" type="checkbox"/> 67%  | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 33%              | <input checked="" type="checkbox"/> 67%  | 70%     |
| <input type="checkbox"/> McGrath, Simon      | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 50%  | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 67%  | <input checked="" type="checkbox"/> 100%             | <input checked="" type="checkbox"/> 100% | 86%     |
| <input type="checkbox"/> Newman, Simon       | <input checked="" type="checkbox"/> 75%  | <input checked="" type="checkbox"/> 50%  | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 67%  | <input checked="" type="checkbox"/> 100%             | <input checked="" type="checkbox"/> 67%  | 77%     |
| <input type="checkbox"/> Oliver, Alan        | <input checked="" type="checkbox"/> 75%  | <input checked="" type="checkbox"/> 50%  | <input checked="" type="checkbox"/> 67%  | <input checked="" type="checkbox"/> 67%  | <input checked="" type="checkbox"/> 100%             | <input checked="" type="checkbox"/> 67%  | 71%     |
| <input type="checkbox"/> Parr, Sean          | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 25%  | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 67%              | <input checked="" type="checkbox"/> 67%  | 77%     |
| <input type="checkbox"/> Roberts, Nicola     | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 50%  | <input checked="" type="checkbox"/> 100% | <input checked="" type="checkbox"/> 67%  | <input checked="" type="checkbox"/> 33%              | <input checked="" type="checkbox"/> 100% | 77%     |

\* WIZARD: The wizard recommends follow-up work by prioritising mathematical skills that a student has struggled with the most compared to the rest of the class up to a quota set by you.

[VIEW ONLINE ARTICLE](#)

☰ Test families



Manage assigned tests / Assign follow-up work



Reports



Test edit

4 Review the work to be assigned and choose to add a class message or individual message

5 Set a due date and click Assign

Follow-up work summary (Chpt 2 A-C Pre-test)

[Back To Results](#)

Assign

Class-wide notifications

Comment (optional) ⓘ

\* Task due date

Write a comment for your class

19/11/2024 📅

11:00 ⌵

4

5

| Student   | Performance on test | Follow-up work ⓘ  | Comment to individual student (optional)      |   |   |
|---|---------------------|---|---|---|---|
| ^ Anderson, Katherine   | 88%                 | 4 skill resources selected  | ☑   |   |   |
| Mathematical skills   | %                   | Revisit this section from your textbook   | Watch these worked example videos             | See how you go with these                         | For more practice, do these exercise questions  |
| <input type="checkbox"/> 2B Highest common factor and lowest common multiple  |                     | <input type="checkbox"/>  | <input type="checkbox"/>                      | <input type="checkbox"/>                          | <input type="checkbox"/>                        |
| <input type="checkbox"/> Finding the highest common factor (HCF)              | 100%                | <input type="checkbox"/> 2B Highest common factor and lowest common multiple            | <input type="checkbox"/> Example 4            | <input type="checkbox"/> Now You Try 4            | <input type="checkbox"/> 2B: 1, 2, 3, 8         |
| <input checked="" type="checkbox"/> Finding the lowest common multiple (LCM)  | 25%                 | <input checked="" type="checkbox"/> 2B Highest common factor and lowest common multiple | <input checked="" type="checkbox"/> Example 5 | <input checked="" type="checkbox"/> Now You Try 5 | <input checked="" type="checkbox"/> 2B: 4, 5, 7 |
| <input type="checkbox"/> 2C Divisibility tests                                |                     | <input type="checkbox"/>  | <input type="checkbox"/>                      | <input type="checkbox"/>                          | <input type="checkbox"/>                        |
| <input type="checkbox"/> Using divisibility tests                             | 100%                | <input type="checkbox"/> 2C Divisibility tests  | <input type="checkbox"/> Example 6            | <input type="checkbox"/> Now You Try 6            | <input type="checkbox"/> 2C: 1-6, 8             |
| <input type="checkbox"/> Testing to find factors of integers                  | 100%                | <input type="checkbox"/> 2C Divisibility tests  | <input type="checkbox"/> Example 7            | <input type="checkbox"/> Now You Try 7            | <input type="checkbox"/> 2C: 7, 9, 10           |
| <input type="checkbox"/> 2D Prime numbers                                     |                     | <input type="checkbox"/>  | <input type="checkbox"/>                      | <input type="checkbox"/>                          | <input type="checkbox"/>                        |
| <input type="checkbox"/> Determining whether a number is a prime or composite | 100%                | <input type="checkbox"/> 2D Prime numbers   | <input type="checkbox"/> Example 8            | <input type="checkbox"/> Now You Try 8            | <input type="checkbox"/> 2D: 1, 2, 4            |
| <input type="checkbox"/> Finding prime factors                                | 100%                | <input type="checkbox"/> 2D Prime numbers   | <input type="checkbox"/> Example 9            | <input type="checkbox"/> Now You Try 9            | <input type="checkbox"/> 2D: 3, 5, 6            |
| Write a comment for Anderson, Katherine                                       |                     |   |   |   |   |



VIEW ONLINE ARTICLE

Test families
 Manage assigned tests / Assign follow-up work
 Reports
 Test edit

- 1 Once you have covered all the mathematical skills in your pre-tests for a Test family, you can click on the +POST icon to generate the post-test
- 2 Give your post-test a name and click Generate
- 3 You can choose to edit your post-test by clicking on the test name and adding or removing questions in the Test edit area

Test families (2)

| Name                                     | Test details                          | Created                    | Description | Status                   | Post-test     | Type    | Action                   |
|--|---------------------------------------|----------------------------|-------------|--------------------------|---------------|---------|--------------------------|
| <input type="checkbox"/> ^ Term 2        | 3 pre/mid-tests<br>49 questions total | Nathan Smith<br>04/06/2024 |             | 3/3 assigned             | Not generated | Family  | <input type="checkbox"/> |
| <input type="checkbox"/> Algebra 1       | 19 questions total                    | Nathan Smith<br>04/06/2024 |             | assigned<br>(not in use) |               | Pre/mid |                          |
| <input type="checkbox"/> Algebra 2       | 10 questions total                    | Nathan Smith<br>05/06/2024 |             | assigned<br>(not in use) |               | Pre/mid |                          |
| <input type="checkbox"/> Week 4          | 20 questions total                    | Nathan Smith<br>05/06/2024 |             | assigned<br>(not in use) |               | Pre/mid |                          |
| <input type="checkbox"/> v Term 4 Family | 2 pre/mid-test<br>78 questions total  | Nathan Smith<br>12/02/2024 |             | 1/3 assigned             | Generated     | Family  | <input type="checkbox"/> |
| <input type="checkbox"/> v Shared tests  | Tests shared by other teachers        |                            |             |                          |               | Shared  |                          |

+ Test Family Assign Copy Share Archive Print Answer Key Archive All

**Generate post-test for this family**

You can not add pre/mid-tests to the test family once the post-test has been generated.

\* Name:

Description:

Cancel Generate

☰ Test families



Manage assigned tests / Assign follow-up work



Test edit

1 Select the report type you need and choose the Test family to report on, then click Generate

- Results by question**
- Results by skills
- Test comparison
- Performance by student
- Score vs. time taken
- Growth vs. attainment

1

^ Content

Select report type: Results by question

Select test family

| Name                                    | Total tests | Tests assigned | Total questions | Pre/mid tests | Post test generated |
|---|-------------|----------------|-----------------|---------------|---------------------|
| <input checked="" type="radio"/> Term 2 | 4           | 3              | 98              | 3             | yes                 |
| <input type="radio"/> Term 4 Family     | 3           | 1              | 78              | 2             | yes                 |

Select test/s: Algebra 1 (1 class, 12/11/2024, 12:41 pm) × Week 4 (1 class, 12/11/2024, 12:41 pm) × Algebra 2 (1 class, 12/11/2024, 12:41 pm) ×

Generate

2 Choose to refine your selection by deselecting classes, individual students or question difficulty

2

^ Refine

Filter

Classes: 2024 Maths EMAC 4 Kappler ×

Students: Black, Jake × + 9 ...

Difficulty: [dropdown]

3 Export results or data set as csv or pdf file

Export CSV ↓ Export PDF ↓

# READY TO DIVE RIGHT IN

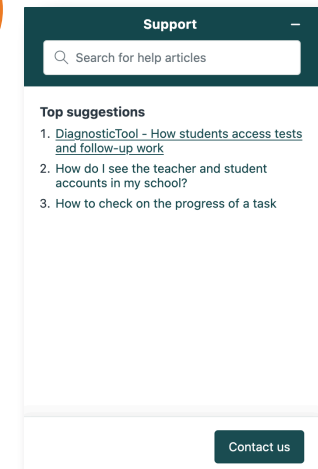
1

Launch your Online Teaching Suite resource from your Cambridge GO account and click the Diagnostics icon in the left-hand margin to get started.










2

Find yourself stuck? Click on the Support widget in the bottom right of the page to explore relevant support articles or to contact us to report a problem



VIEW ONLINE ARTICLE

## DIVE A LITTLE DEEPER : TIPS FOR GETTING MORE OUT OF DIAGNOSTICS

-  HOW TO EDIT THE EXPIRY OF A TEST
-  HOW TO REASSIGN OR RESET A TEST FOR AN INDIVIDUAL
-  HOW TO FORCE-SUBMIT AN INDIVIDUAL STUDENT'S RESULTS
-  HOW TO CHECK YOUR SKILLS COVERAGE
-  HOW TO FIND INDIVIDUAL RESPONSES FOR STUDENTS
-  HOW TO SHARE TESTS WITH ANOTHER TEACHER
-  HOW TO ARCHIVE YOUR TESTS