

Mathemagic & Destination Maths

Manual for Teachers of
3rd to 6th Class

Seamus O'Neill



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CONTENTS	Page
Quick Start Guide	2 - 3
How to navigate a tutorial	4
The Navigation Panel	5
How Mathemagic links-in	6
Third Class	7 - 8
DM Course 3: Modules A to F	9 - 14
Quick Reference Page: Third Class	15
Quick Reference Page: Fourth Class	16
Quick Reference Page: Fifth Class	17
Quick Reference Page: Sixth Class	18

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Mathemagic & Destination Maths

Manual for Teachers 3rd to 6th Class

Destination Maths offers pupils an enjoyable means of developing and consolidating crucial mathematical concepts and skills.

The 'Quick Start Guide' will help you to get started with *Destination Maths* and shows how it can be used in conjunction with our Mathemagic series.

We have revised the bulk of *Destination Maths* to support the objectives of the revised Irish Primary Maths curriculum but it is worth noting that there are some aspects that are not directly applicable. These have been included because they may offer opportunities for extension and enrichment and may also provide support in managing differentiation in the classroom. *Destination Maths* supports all levels of mathematical ability in a clear, attractive and challenging manner.

To acquaint yourself with the layout of *Destination Maths*, we suggest you start with the five step tour. Once you become familiar with its layout, you will be better able to locate the *Destination Maths* tutorials that correspond with the lessons in Mathemagic.

Quick Start Guide . . .



This manual is targeted primarily at *Destination Maths Course 3* for teachers at 3rd to 6th Class. The previously published manual which covers *Destination Maths Course 1* and *Course 2* is intended for teachers from Infants to 2nd Class. Teachers of 3rd Class should consult both manuals as there is much content in *Course 2* that supports the 3rd Class curriculum. On pages 7 and 8 of this manual we will outline the sections of *Destination Maths Courses 2 and 3* which link in with Mathemagic Book 3.

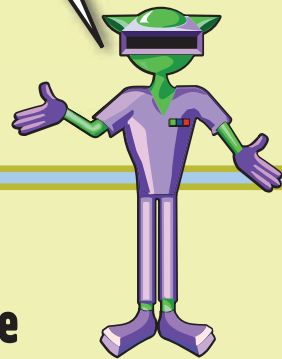
Quick Start Guide to Destination Maths

We start with a 5-step tour of Destination Maths.

1

www.destinationmaths.ie

Step 1. Login

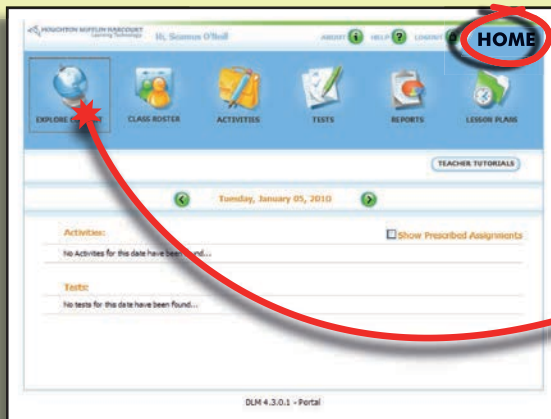


2

Teacher's Home Page and Explore Content page

This is the **Teacher's Home Page**.

This is the **Explore Content** page.



★ Click the **Explore Content** link.

Step 2. Launch the Course

★ Click **Destination Maths Course 3**.

2

3

Main menu

This is the main menu of **Course 3**.
Course 3 has six tabs across the top.
Each tab opens a Module.

1 2 3 4 5 6



↑ This exit icon brings you back to the **Explore Content** page.

Step 3. Choose a Module

★ Click the first tab: **Numbers and Number Sense**.



.. and how to link it with **Mathemagic**



4 Module menu

This module has 2 Units.
Unit 1. Large and Small Numbers
Unit 2. Numbers as Factors



↑ This door exit icon brings you back to the **Explore Content** page.

Step 4. Choose a Unit

★ Click the Unit: **Large and Small Numbers**.

5 Unit menu (the Tutorials)

This unit has 3 Tutorials.
Tutorial 1. Whole Numbers to One Million
Tutorial 2. Ordering and Rounding Whole Numbers
Tutorial 3. Negative Whole Numbers



Step 5. Choose a Tutorial

★ Click the T-button **Whole Numbers to One Million**.

The Quick Start Guide continues on next page with navigation essentials.

Tutorial 1 links with Place Value and **Big Numbers** beginning on page 7 of **Mathemagic 3**, **Mathemagic 4**, **Mathemagic 5** and **Mathemagic 6**. The teacher will know how far into the tutorial to take the children at any class level.

How to navigate a tutorial

in Destination Maths Courses 3 and 4

Navigation Essentials

After login . . .

Choose Course 3

Choose the Module

Numbers and Number Sense

Choose the Unit

Large and Small Numbers

Choose the Tutorial

Whole Numbers to One Million



Large and Small Numbers Tutorial 1 Screen 1

Large and Small Numbers Tutorial 1 Screen 1

Module:
Numbers and Number Sense

Unit:
Large and Small Numbers

Tutorial 1:
Whole Numbers to One Million

Learning Objectives:

- Use 10 to generate the pattern of numbers 1, 10, 100, 1,000, 10,000, 100,000 and 1,000,000 and to represent them in standard and word form.
- Expand the place value grid up to 1,000,000.
- Represent a number up to one million in expanded form and as the product of each digit times its place value.
- Write the word names of numbers up to a million.

Key Words:

- Digit
- Place value
- Expanded form
- Standard form
- Thousand
- Ten thousand
- Hundred thousand
- Million

The Learning Objectives Screen

The initial screen sets out the 'Learning Objectives' and 'Key Words' which will be covered in the tutorial. The bullet points give a useful overview of the tutorial which is divided into *screens* or lessons. Screens can be easily accessed through the navigation panel which is pictured and explained below.

Starting a Tutorial



Click the 'continue' button at the bottom right of the screen to start and work through a tutorial.

Bringing up the Navigation Panel

To bring up the navigation panel click the button with the double arrow on the right of the screen.



When you click this button you find a glossary of the Maths terms used in the Course as well as a calculator.



The Navigation Panel

The navigation panel makes it easy to locate a specific screen in the tutorial.

summary → workout 1
workout 2
workout 3

Navigation panel showing a slider and buttons for 'A', 'S', '1', '2', '3'. The slider is positioned over '1'. Buttons for 'A', 'S', '1', '2', '3' are visible. Arrows at the ends of the panel allow for navigation.

Learning Objectives ↑

Drag the slider and click the OK button to jump to a particular part of the tutorial. Alternatively, you can mouse-click or use the arrows at each end of the navigation panel to move the slider. Click the Cancel button to hide the navigation panel.

OK

Cancel

... and use the Navigation Panel to link-in Mathemagic

The Tutorial

“.. We know that 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 are the first ten whole numbers ..”

“.. We call the symbols from zero to nine ‘digits’. That means that 10 is the first two-digit whole number..”

“What else, do you think is true about the number ten?”
(Click on your answers)

“You’re right. Ten is not equal to one plus zero. Ten is equal to the sum of ten ones and ten is equal to ten times one.”

“... a dinosaur is about ten times the size of Digit ...”

Frame 1

Frame 2

Frame 3

Frame 4

Frame 5



The example above shows some of the narration and the first five frames of tutorial 1. In all, there are almost eighty frames spread across the three screens of this tutorial, forty-two frames in Screen 1 alone. The navigation buttons make it easy to go back to the previous frame, to repeat the current frame, to pause the tutorial or to advance quickly to the next frame.



previous frame



repeat current frame



pause tutorial



next frame

There are many interactive situations in each tutorial where the student is asked to click or drag in response to a prompt or question (e.g. frame 3 above) or to type input at the keyboard.

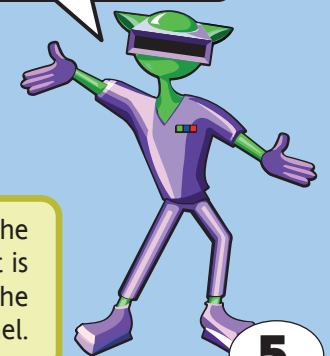
The Workouts



the workout buttons on the Unit Menu

As well as the tutorials there are ‘workouts’ to test, challenge or consolidate the students’ comprehension of the topic which has been covered. Each workout is set in a new and interesting context. The workout buttons can be found on the unit menu. The workouts can also be accessed direct from the navigation panel.

Tutorial 1 goes on to show how we use tens to create Whole Numbers from zero to one million.



How Mathemagic Links-in Destination Maths

A tutorial in *Destination Maths* will cover several strand units of the Irish Revised Primary Maths Curriculum and span the content of several pages of Mathemagic. Sometimes a tutorial will straddle the unit objectives of two or more class levels. Teachers will want to break a tutorial into shorter teaching units to link-in pages of the text book with *Destination Maths*. The slider in the navigation panel can be used to pinpoint which frames begin or end a tutorial session.

Chapter 2 Big numbers

What's before and after?

1. (a) What number is immediately before 100? (b) What number is immediately after 100? (c) What number is two less than 100? (d) What number is two more than 100?

2. Write the missing numbers.

3. Fill in the missing numbers in each of the following:

4. Add 2 to each of the following numbers.

5. Subtract 3 from each of the following numbers.

Book 3: pages 7 - 12

Chapter 2 Big numbers

10 tens = 1 hundred (100)

10 hundreds = 1 thousand (1000)

1 thousand = 1 hundred + 4 tens + 3 units = 1143

6. Use your notation board to show the following:

Book 4: pages 7 - 10

Chapter 2 Place value

1. Write the numbers shown on each notation board.

2. Show the following numbers on your own notation board.

3. Write the following in expanded form.

4. Use your notation board to show the following:

Book 5: pages 7 - 10

Chapter 2 Place value

1. Write the numbers shown on each notation board.

2. Show the following numbers on your own notation board.

3. Write the number which is missing from each number line.

4. Write the following numbers in expanded form.

5. Write the value of the following numbers.

Book 6: pages 7 - 12

Because Tutorial 1 presents Whole Numbers from zero to a million . .



. . it crosses over several Strand Units and several class levels.



A

Screen 1

Screen 2

Screen 3

S

1

2

3



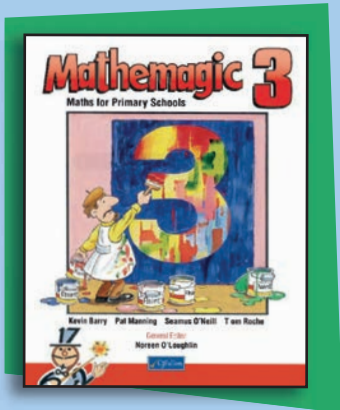
Tutorial 1

Screen 1 generates the pattern of numbers 1, 10, 100, 1,000, 10,000 and 1,000,000 and shows how to represent them in standard and word form. The teacher can use the slider and navigation buttons to mark the frames that fall within the curriculum objectives of the class.

Screen 2 introduces the Place Value chart from 2-digit to 7-digit numbers and shows how to represent big numbers in their expanded form.

Screen 3 develops the use of the Place Value chart up to one million and shows how to write the word names for large numbers.

There are frames in each screen that support the maths programme at each class level. Using the slider, it is possible to link the frames with one of the Mathemagic books for 3rd, 4th, 5th or 6th Class.



Number Strand Units for 3rd Class

Place Value: The child should be enabled to . .

- explore and identify place value in whole numbers to 999
- read, write and order three-digit numbers
- round whole numbers to the nearest ten or hundred
- explore and identify place value in decimal numbers to one place of decimals

Addition and subtraction: The child should be enabled to . .

- add and subtract, without and with renaming within 999
- know and recall addition and subtraction facts
- solve word problems involving addition and subtraction

Multiplication: The child should be enabled to . .

- develop an understanding of multiplication in repeated addition and vice versa
- explore, understand and apply the zero, commutative and distributive properties of multiplication

Division: The child should be enabled to . .

- develop an understanding of division as sharing and repeated subtraction, with and without remainders
- develop and/or recall division facts within 100

continued

Please consult the **Quick Start Guide for Infants to 2nd Class pages 8 - 9**

Destination Maths Course 2



Module 1: Unit 1



Unit 1
Numbers
to 999

Session 3

Session 4

Session 5

Strand Units

Place Value: H T & O (to 999)

Expanded form of H T & O (max 699)

Comparing numbers (max 599)

Links with Mathemagic Book 3

pages 7, 8

pages 12, 15

pages 9, 10, 11



Module 2: Unit 2



Unit 2
Fractions

Session 1

Fractions: of a Whole, of a Group

pages 47, 48, 50, 51, 52, 93, 94, 95, 96

Reminder: Thirds and fifths are not on the curriculum for 3rd Class.

Module 3: Unit 1



Module 3: Unit 2



Unit 1
Geometry

Session 1

Session 2

Area

Capacity & Volume

pages 87, 88, 89, 90

pages 115, 116, 117, 118



Unit 2
Measurement

Session 1

Session 2

Time

Money: 1, 5, 10, 20, 50c and Eurocoins

pages 83, 84, 85, 86, 151, 152, 153, 154

pages 139, 140, 141, 142, 143

Division (3rd class) continued

- divide a one-digit or two-digit number by a one-digit number, without and with remainders
- solve and complete practical tasks and problems involving division of whole numbers

Fractions: The child should be enabled to . .

- identify fractions and equivalent forms of fractions with denominations of 2, 4, 8, 10
- compare and order fractions and position on the number line
- calculate a fraction of a set
- calculate a unit fraction of a number, given a unit fraction of the number
- solve and complete practical tasks and problems

Decimals: The child should be enabled to . .

- identify tenths and express in decimal form
- order decimals on the number line

Algebra strand units for **Third Class:**

Number patterns and sequences: The child should be enabled to . .

- explore, recognise and record patterns 0 - 999
- explore, extend and describe sequences
- use patterns as an aid for memorisation of number facts

Number sentences: The child should be enabled to . .

- translate an addition or subtraction number sentence with a frame into a word sentence
- solve one-step number sentences

Most of the teaching objectives of **Destination Maths Course 3** extend beyond the 3rd Class curriculum. The following table points to the parts of Course 3, Modules A, B and C that can be easily linked with pages of **Mathemagic Book 3**.

Destination Maths Course 3*

Module A **Numbers and Number Sense** Tutorial 1 (part)

Unit 1: Large and Small Numbers

Module B **Operations with Numbers** Tutorial 1 (part)

Unit 1: Whole Number Sums

Module C **Fractions** Tutorial 1 (part)

Unit 1: Proper Fractions

Strand Units	Mathemagic Book 3
Place Value: H T & O (to 999)	pages 7, 8, 9, 10, 11, 12
Addition of 3-digit numbers to 999	pages 13, 14
Fractions on a fraction wall	pages 47, 50

*The teacher might use the remaining parts of these tutorials for the purpose of extension and enrichment.

Fun with figures

1. Write in figures the value of the underlined digits.

(a) 236 (b) 456 (c) 386 (d) 218 (e) 637
 (f) 708 (g) 620 (h) 829 (i) 994 (j) 508
 (k) 637 (l) 428 (m) 698 (n) 805 (o) 204
 (p) 59 (q) 687 (r) 988 (s) 999 (t) 909

Numbers you can make using these digits.

2, 8, 4

268, 284, 824, 842, 428, 482

Make 6 numbers with each of the following groups of digits.

1. (a) 3, 5, 2 (b) 6, 7, 2 (c) 6, 9, 5 (d) 8, 6, 7 (e) 6, 3, 4
 2. (a) 9, 5, 2 (b) 7, 3, 2 (c) 5, 6, 9 (d) 3, 0, 7 (e) 2, 8, 9

Biggest and smallest

Make the biggest and smallest numbers using the digits 4, 9 and 2.

biggest: 942, smallest: 249

Make the biggest and smallest numbers using each of the following groups of digits.

1. (a) 6, 1, 9 (b) 4, 8, 6 (c) 3, 6, 7 (d) 2, 6, 5 (e) 1, 3, 8
 2. (a) 9, 8, 1 (b) 6, 8, 4 (c) 5, 1, 9 (d) 7, 3, 0 (e) 5, 3, 6

Eighths (1/8)

1. What fraction of each shape is (i) blue? (ii) green?

(a) 3/8 blue, 5/8 green (b) 4/8 blue, 4/8 green (c) 4/8 blue, 4/8 green (d) 4/8 blue, 4/8 green

2. What fraction of each shape is coloured?

(a) 3/8 (b) 4/8 (c) 5/8 (d) 6/8

3. Colour.

(a) 1/8 (b) 2/8 (c) 3/8 (d) 4/8 (e) 5/8 (f) 6/8 (g) 7/8 (h) 8/8

4. Families of fractions
Can you write two names for the amount coloured?

(a) 4/8 = 1/2 (b) 2/8 = 1/4 (c) 6/8 = 3/4 (d) 3/8 = 3/8

Destination Maths Course 3 for 4th, 5th and 6th Class

Destination Maths Course 3 consists of 6 modules:

- A. Number and Number Sense
- B. Operations with Numbers
- C. Fractions
- D. Decimals
- E. Geometry
- F. Data Analysis and Probability

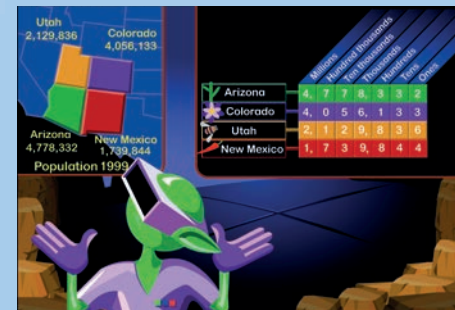


Click a tab to open a module. Module A is pictured showing its two units and six tutorials. The numbers in the table refer to the relevant pages of the Mathemagic text book at 4th, 5th and 6th Class.

Module A

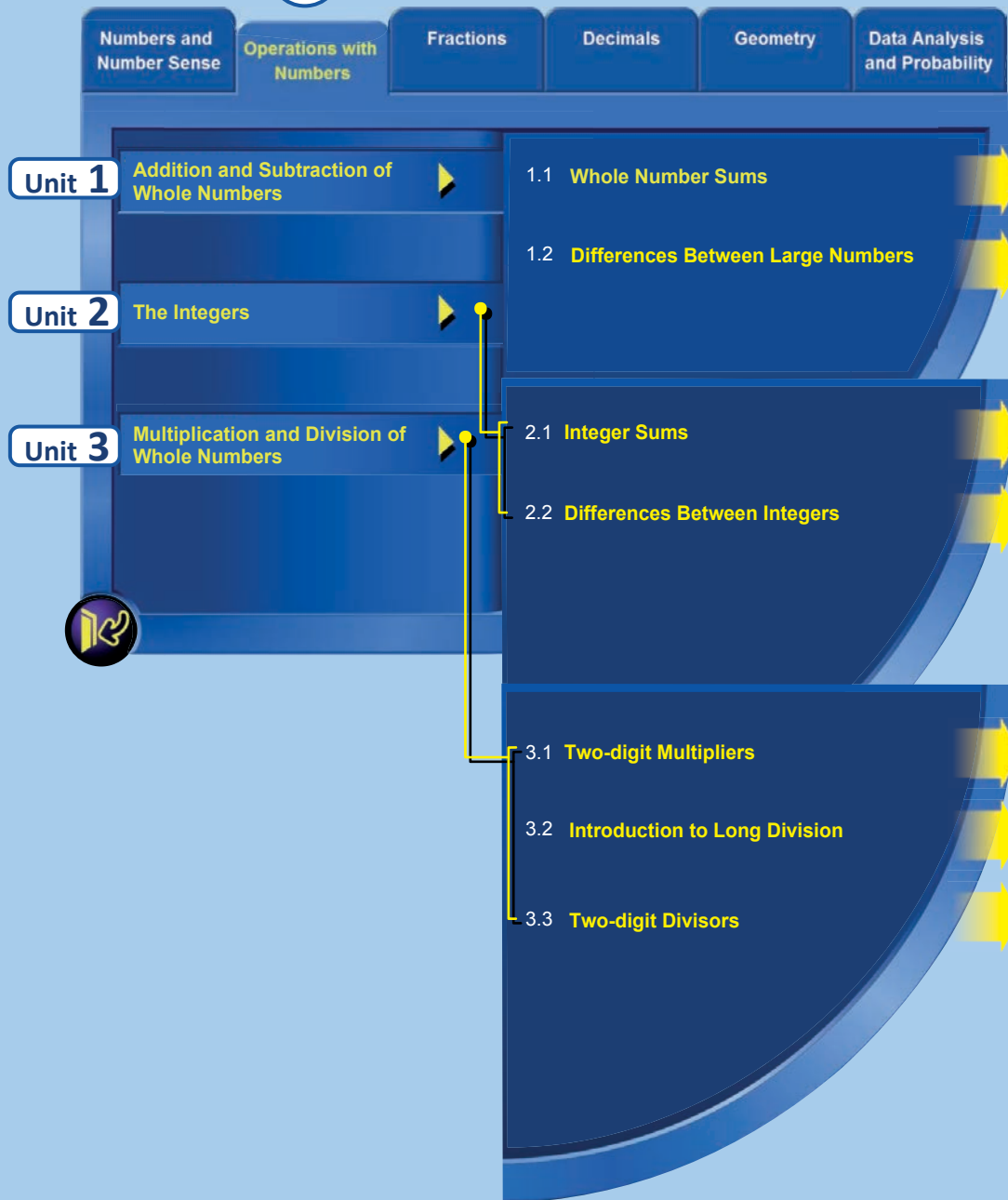
	Numbers and Number Sense	Operations with Numbers	Fractions	Decimals	Geometry	Data Analysis and Probability
Unit 1	Large and Small Numbers					
			1.1	Whole Numbers to One Million		
			1.2	Ordering and Rounding Whole Numbers		
			1.3	Negative Whole Numbers		
Unit 2	Numbers as Factors					
			2.1	Finding Factors		
			2.2	Prime and Composite Numbers		
			2.3	Identifying Common Factors		

4 th Class Mathemagic 4	5 th Class Mathemagic 5	6 th Class Mathemagic 6
7, 8, 9	7, 8	7, 8
--	9, 10	9, 10, 11
--	127, 128, 129	125, 126
--	70, 71, 122, 123	67, 68, 69, 70
--	70, 71, 72, 73, 74	--
--	--	67, 68, 69, 70



Example: Mod. A - 1.2: Screen 1

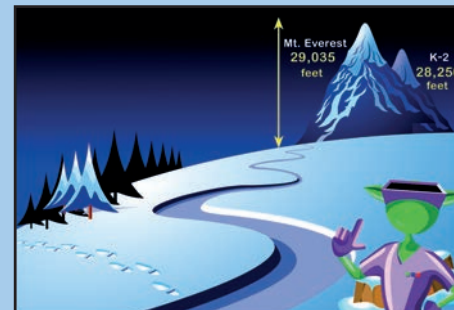
Rounding and Ordering the size of population in the states of Utah, Colorado, Arizona and New Mexico



	4 th Class Mathemagic 4	5 th Class Mathemagic 5	6 th Class Mathemagic 6
Unit 1	11	11	--
Unit 2	12	12, 13, 14, 15	--

Unit 3	--	127, 128, 129	125, 126
	--	--	127, 128

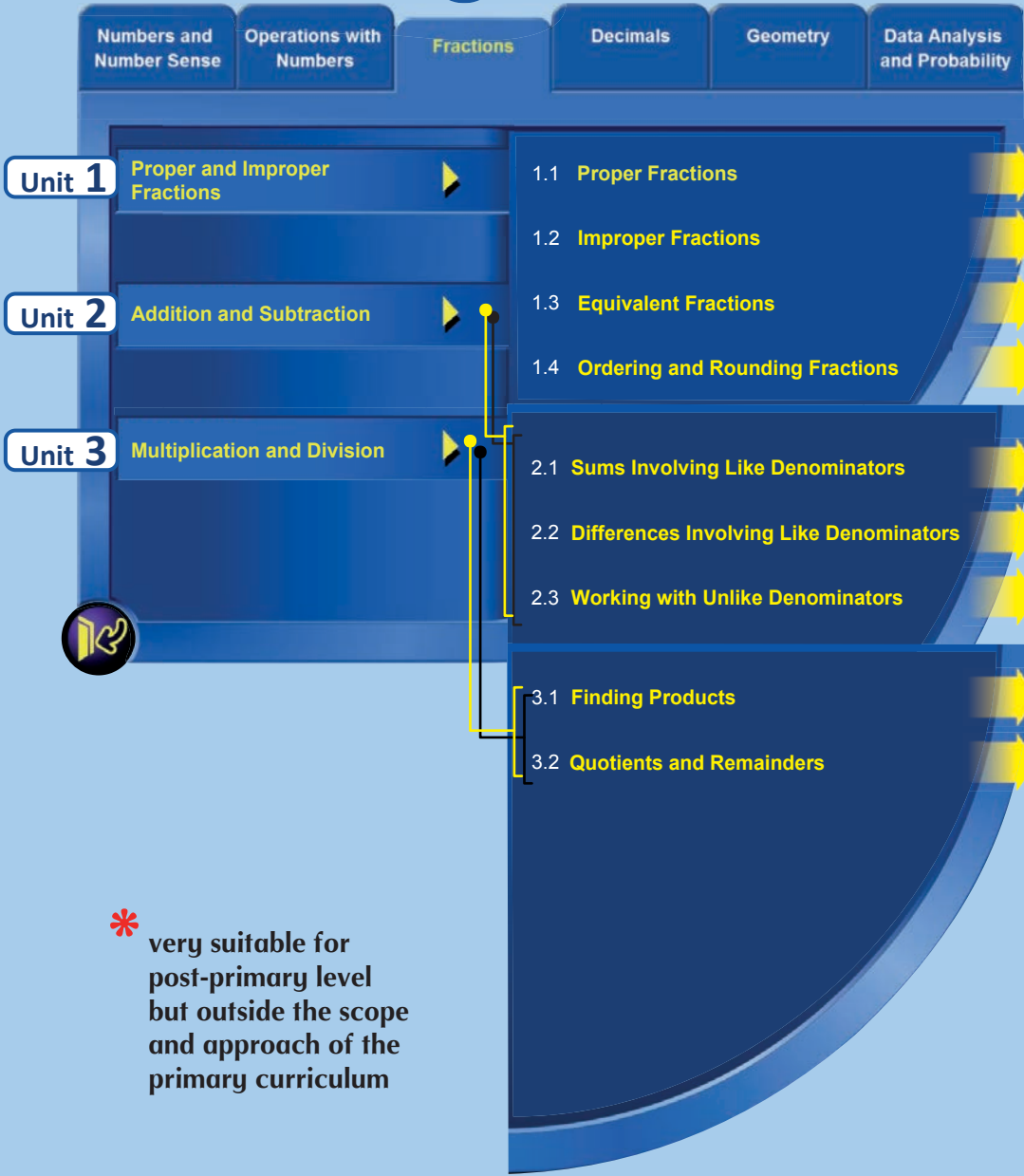
	24, 25, 87, 88, 107, 108, 109	--	--
	104, 105, 106	--	--
	--	31, 32, 33, 34, 35, 36	--



Example: Mod. B - 1.2
Screen 2

Differences between the height of the world's highest mountains, Mt. Everest and K-2

Module **C**



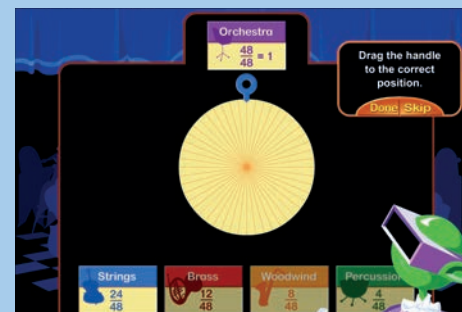
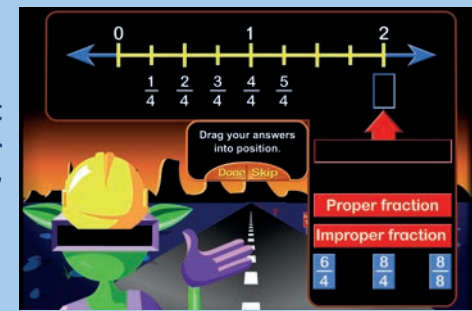
4 th Class Mathemagic 4	5 th Class Mathemagic 5	6 th Class Mathemagic 6
41	37	--
--	39	--
--	40	--
--	--	33, 34, 35

--	47, 48	--
--	48	--
--	49, 50	36

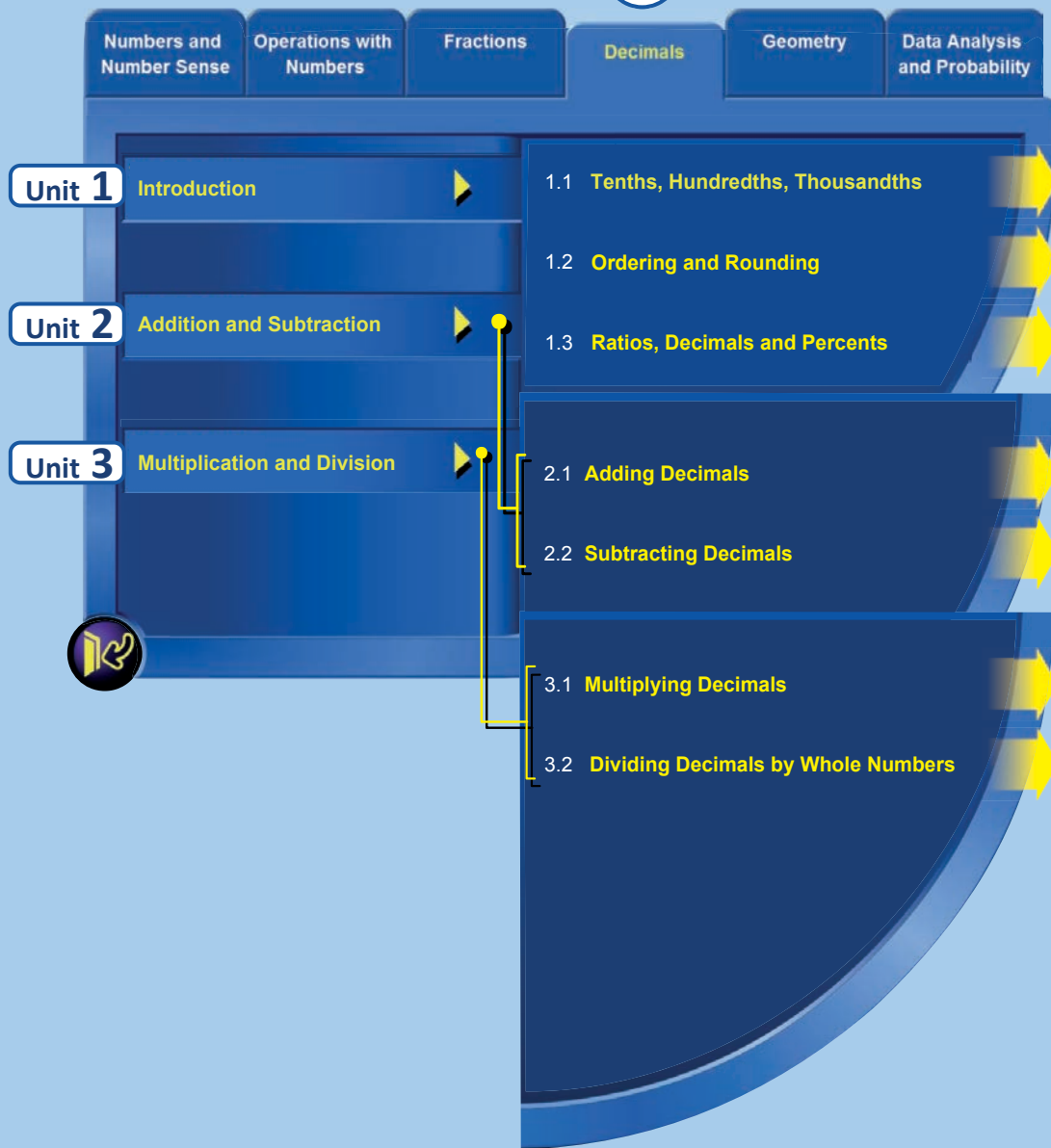
--	--	37
--	--	43 *

* very suitable for post-primary level but outside the scope and approach of the primary curriculum

Example 1: Mod. C - 1.2 Screen 2
“How would you label this point on a number line? Drag your answer into position.”



Example 2: Mod. C - 1.3 Screen 1
“How would represent the number of musicians in the strings section of the orchestra? Drag the handle.”

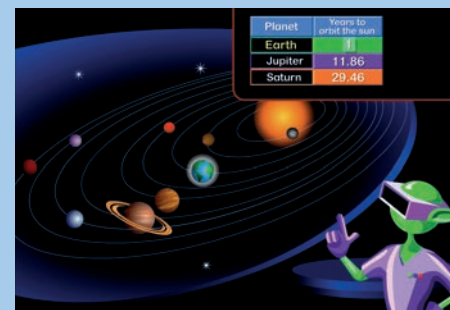
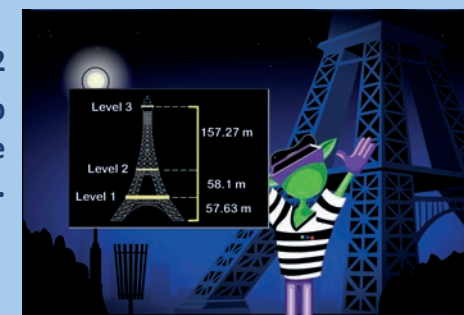


4 th Class Mathemagic 4	5 th Class Mathemagic 5	6 th Class Mathemagic 6
57, 58	57, 58, 59, 60	--
--	--	58
--	--	87, 88, 89, 90

78, 79	61	--
79	61	--

139	--	73, 74, 75, 76
140	85, 86, 87, 88	--

Example 1: Mod. D - 2.1 Screen 2
Finding the height of the top viewing level of the Eiffel Tower by adding decimals.



Example 1: Mod. D - 2.2 Screen 1
Finding the difference between the number of years it takes Saturn and Jupiter to orbit the Sun.

Numbers and Number Sense Operations with Numbers Fractions Decimals **Geometry** Data Analysis and Probability

Unit 1 Measurement

1.1 Lines, Angles and Circles

1.2 Rectangles and Squares

1.3 Triangles

1.4 Parallelograms and Trapeziums

Unit 2 Coordinate Geometry and Algebra

2.1 The Coordinate Plane

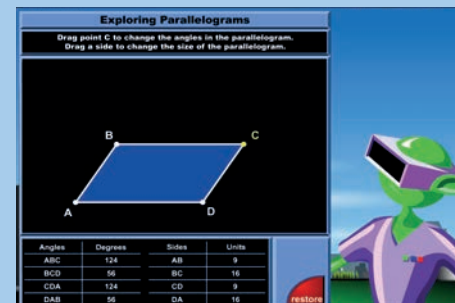
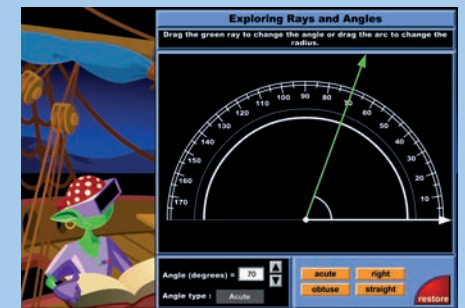
2.2 Symmetry and Transformations

4 th Class Mathemagic 4	5 th Class Mathemagic 5	6 th Class Mathemagic 6
39, 40	53, 54, 55, 56	25, 26, 27, 28
--	--	-- *
--	--	-- *
--	53, 54, 55, 56	25, 26, 27, 28 *
--	--	50, 51, 52 *
--	--	-- *

* very suitable for post-primary level but outside the scope and approach of the primary curriculum

Example 1: Mod. E - 1.1: Screen 3

An interactive frame to study angles, degrees and use of a protractor



Example 2: Mod. E - 1.4: Screen 1

An interactive frame to study the angles and sides of quadrilaterals

Module

F

Numbers and Number Sense

Operations with Numbers

Fractions

Decimals

Geometry

Data Analysis and Probability

Unit 1

Modelling and Displaying Events

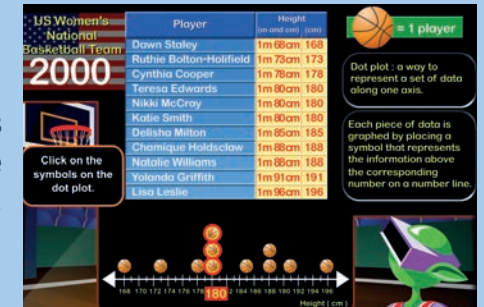
1.1 Displaying and Analysing Data

1.2 Looking at Chance

4 th Class Mathemagic 4	5 th Class Mathemagic 5	6 th Class Mathemagic 6
--	--	17, 18, 19, 20 *
167	168, 169	167, 168, 169 *

Example: Mod. F - 1.1: Screen 1

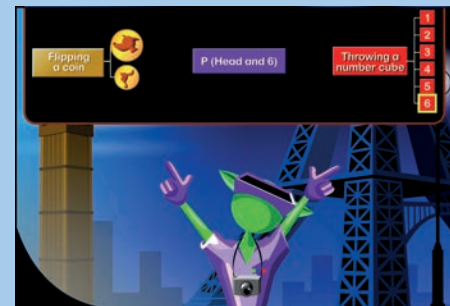
A 'dot-plot' (pictogram) using symbols to represent the heights of all the players on a basketball team.

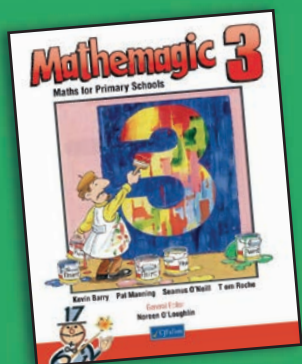


* very suitable for post-primary level but outside the scope and approach of the primary curriculum

Example: Mod. F - 1.2: Screen 2

Flipping coins and tossing dice to study the outcomes.





Quick Reference Page for Teachers of Third Class

Pages in this Booklet

Destination Maths Courses 2 and 3

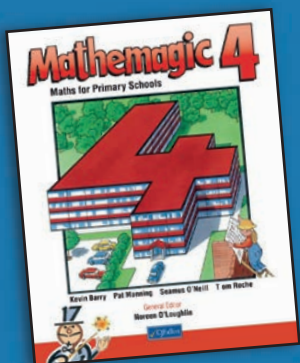
textbook pages: concept

pages:

location of the interactivity in Courses 2 and 3

7 - 11	Place value: Hundreds, Tens & Units: numbers to 999	7	Course 2: Module 1: Unit 1: Session 3
		8	Course 3: Module A: Unit 1: Tutorial 1 (Screen 1)
12, 15	Expanded form of H, T and U: numbers to 699	7	Course 2: Module 1: Unit 1: Session 4
13 - 14	Addition of H, T and U	7	Course 2: Module 1: Unit 1: Session 5
		8	Course 3: Module B: Unit 1: Tutorial 1 (Screen 1)
47 - 48	Fractions on a Fraction Wall: halves, quarters	7	Course 2: Module 2: Unit 2: Session 1
		8	Course 3: Module C: Unit 1: Tutorial 1 (includes extension work) *
50 - 52	Fractions on a Fraction Wall: halves, quarters, eighths	7	Course 2: Module 2: Unit 2: Session 1
		7	Course 3: Module C: Unit 1: Tutorial 1 (includes extension work)
83 - 86	Time	7	Course 2: Module 3: Unit 2: Session 1
87 - 90	Area	7	Course 2: Module 3: Unit 1: Session 1
93 - 96	Fractions on a Fraction Wall: tenths	7	Course 2: Module 2: Unit 2: Session 1
		7	Course 3: Module C: Unit 1: Tutorial 1 (includes extension work)
115 - 118	Capacity & Volume	7	Course 2: Module 3: Unit 1: Session 2
139 - 143	Money	7	Course 2: Module 3: Unit 2: Session 2
151 - 154	Time	7	Course 2: Module 3: Unit 2: Session 1

* Note: Thirds and fifths are not on the curriculum for 3rd Class.



Quick Reference Page for Teachers of Fourth Class

Pages in this
Booklet

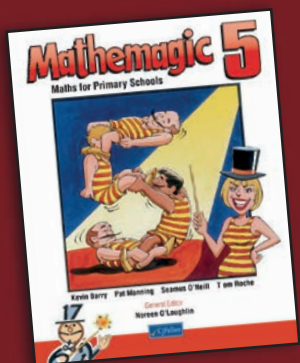
Destination Maths Course 3

textbook pages: concept

pages:

location of the interactivity in Course 3

textbook pages: concept	pages:	location of the interactivity in Course 3	
7- 9	Place value Th, H, T & U: numbers to 9999	9	Course 3: Module A: Unit 1: Tutorial 1 (Screen 1)
11	The sum of large numbers: three-digit numbers	10	Course 3: Module B: Unit 1: Tutorial 1 (Screen 2, includes extension work)
12	Differences between large numbers: four-digit numbers	10	Course 3: Module B: Unit 1: Tutorial 2 (Screen 1)
24 - 25	Multiplication of whole numbers: one digit by two digits	10	Course 3: Module B: Unit 3: Tutorial 1 (Screen 1)
39 - 40	Lines: lines, line segments, rays	13	Course 3: Module B: Unit 3: Tutorial 1 (Screen 1)
41	Fractions on a Number line: halves, thirds, quarters	11	Course 3: Module C: Unit 1: Tutorial 1 (Screen 1, includes extension work)
57 - 58	Decimals: tenths, hundredths	12	Course 3: Module D: Unit 1: Tutorial 1 (Screen 1, includes extension work)
78 - 79	Adding decimals: tenths, hundredths	12	Course 3: Module D: Unit 2: Tutorial 1 (Screen 1, includes extension work)
79	Subtracting decimals: tenths, hundredths	12	Course 3: Module D: Unit 2: Tutorial 2 (Screen 1, includes extension work)
87 - 88	Multiplication of whole numbers: two digits by two digits	10	Course 3: Module B: Unit 3: Tutorial 1 (Screen 2)
104 - 106	Introduction to long division	10	Course 3: Module B: Unit 3: Tutorial 2 (Screens 1 and 2)
139	Multiplying decimals: one-digit multipliers	12	Course 3: Module D: Unit 3: Tutorial 1 (Screen 1)
140	Dividing decimals: one-digit divisors	12	Course 3: Module D: Unit 3: Tutorial 2 (Screen 1, includes extension work)
167	Looking at Chance: toss a coin	14	Course 3: Module E: Unit 1: Tutorial 2 (Screen 1, includes extension work)



Quick Reference Page for Teachers of Fifth Class

Pages in this Booklet

Destination Maths Course 3

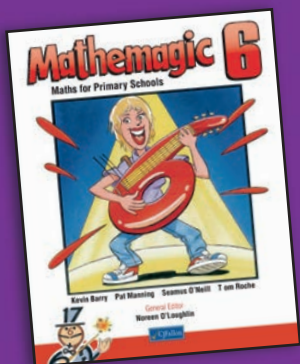
textbook pages: concept

pages:

location of the interactivity in Course 3

textbook pages: concept	pages:	location of the interactivity in Course 3
7, 8	Place value Th, H, T & U: numbers to 99999	9 Course 3: Module A: Unit 1: Tutorial 1 (includes extension work)
9, 10	Rounding large numbers: numbers to 99999	9 Course 3: Module A: Unit 1: Tutorial 2 (Screen 1, includes extension work)
11	The sum of large numbers: numbers to 99999	10 Course 3: Module B: Unit 1: Tutorial 1 (Screen 2, end section)
12	Differences between large numbers: four-digit numbers	10 Course 3: Module B: Unit 1: Tutorial 2 (Screen 2)
31 - 35	Division: three-digit numbers by two-digit numbers	10 Course 3: Module B: Unit 3: Tutorial 3 (Screens 1 and 2)
37	Proper fractions: the number wall and number line	11 Course 3: Module C: Unit 1: Tutorial 1 (Screens 1 and 2)
39	Improper fractions: top heavy fractions / mixed numbers	11 Course 3: Module C: Unit 1: Tutorial 2 (Screens 1 and 2)
40	Equivalent fractions: different names / same value	11 Course 3: Module C: Unit 1: Tutorial 3 (Screens 1 and 2)
47 - 48	Addition of fractions: with like denominators	11 Course 3: Module C: Unit 2: Tutorial 1 (Screens 1 and 2)
48	Subtraction of fractions: with like denominators	11 Course 3: Module C: Unit 2: Tutorial 2 (Screens 1 and 2)
49, 50	Working with fractions: with unlike denominators	11 Course 3: Module C: Unit 2: Tutorial 3 (Screen 1, includes extension work)
53 - 56	Lines, angles and degrees: measuring degrees	13 Course 3: Module E: Unit 1: Tutorial 1 (Screens 1 and 2, includes extension work)
57 - 60	Decimals: tenths, hundredths, thousandths	12 Course 3: Module D: Unit 1: Tutorial 1 (Screens 1 and 2)
61	Adding decimals: tenths, hundredths, thousandths	12 Course 3: Module D: Unit 2: Tutorial 1 (Screens 1 and 2)
61	Subtracting decimals: tenths, hundredths, thousandths	12 Course 3: Module D: Unit 2: Tutorial 2 (Screens 1 and 2, includes extension work)
70, 71	Factors: finding factors	9 Course 3: Module A: Unit 2: Tutorial 1 (Screens 1 and 2, includes extension work) *
85 - 88	Dividing decimals: divide by whole numbers only	12 Course 3: Module D: Unit 3: Tutorial 2 (Screens 1 and 2, includes extension work)
122, 123	Area: integrated with teaching factors	9 Course 3: Module A: Unit 2: Tutorial 1 (Screens 1 and 2, area integrated with factors) *
127 - 129	Directed numbers: adding signed numbers	10 Course 3: Module A: Unit 1: Tutorial 3 (Screen 1, includes extension work)
168, 169	Looking at Chance: toss a coin, roll a dice	14 Course 3: Module F: Unit 1: Tutorial 2 (Screens 1 and 2, includes extension work)

* Includes some concepts not on the 5th Class curriculum.



Quick Reference Page for Teachers of Sixth Class

Pages in this Booklet

Destination Maths Course 3

textbook pages: concept

pages:

location of the interactivity in Course 3

textbook pages: concept	pages:	location of the interactivity in Course 3	
7 - 11	Place value: numbers up to one million	9	Course 3: Module A: Unit 1: Tutorial 1 (Screen 2)
8	Ordering and Rounding: numbers up to one million	9	Course 3: Module A: Unit 1: Tutorial 2 (Screen 2)
17 - 20	Displaying and analysing data: averages	14	Course 3: Module F: Unit 1: Tutorial 1 (Screens 1 and 2, includes extension work) *
25 - 28	Lines, angles and degrees: measuring degrees	13	Course 3: Module E: Unit 1: Tutorial 1 (Screens 1 and 2)
33 - 35	Fractions: ordering and rounding fractions	11	Course 3: Module C: Unit 1: Tutorial 4 (Screens 1 and 2)
36	Fractions: add, subtract with unlike denominators	11	Course 3: Module C: Unit 2: Tutorial 3 (Screens 1, 2 and 3)
37	Fractions: multiplying simple fractions	11	Course 3: Module C: Unit 3: Tutorial 1 (Screens 1 and 2, includes extension work) *
43	Fractions: dividing a whole number by a simple fraction	11	Course 3: Module C: Unit 3: Tutorial 2 (Screen 1) *
50, 51	Introducing co-ordinates	13	Course 3: Module E: Unit 2: Tutorial 1 (Screen 1) *
58	Decimals: rounding decimals	13	Course 3: Module D: Unit 1: Tutorial 2 (Screens 1 and 2)
67 - 70	Factors: finding common factors	9	Course 3: Module A: Unit 2: Tutorial 1 (Screens 1, 2 and 3)
73 - 75	Decimals: multiplying a decimal by a decimal	12	Course 3: Module D: Unit 3: Tutorial 1 (Screens 1 and 2)
87 - 90	Fractions, Decimals and Percentages	12	Course 3: Module D: Unit 1: Tutorial 3 (Screens 1 and 2)
125, 127	Directed numbers: positive and negative numbers	9	Course 3: Module A: Unit 1: Tutorial 3 (Screens 1, 2 and 3)
167 - 169	Looking at Chance: toss a coin, roll a dice	14	Course 3: Module F: Unit 1: Tutorial 2 (Screens 1 and 2, includes extension work) *

* Includes some concepts outside the Irish primary school curriculum.

