

Hodder Mathematics: Third edition

Foundation Tier

Outline of content

	Working Title	Source
1.	Co-ordinates	Present F1 chapter 1, with no changes
2.	Using Numbers	Present F1 chapter 2, with no changes
3.	Types of Number	Present F1 chapter 3, with no changes
4.	Symmetry	Present F1 chapter 4, with one extra spread
5.	Fractions	Present F1 chapter 5, with some changes
6.	Maps and drawings	Present F1 chapter 6, with no changes
7.	Decimals	Present F1 chapter 7, with no changes
8.	Shapes	Present F1 chapter 8, with no changes
9.	Percentages	Present F1 chapter 9, with one extra spread
10.	Statistics	Present F1 chapter 10 with several additions and alterations
11.	Directed Numbers	Present F1 chapter 11, with no changes
12.	Ratio & proportion	Present F1 chapter 12 with no changes
13.	Formulae	A mixture of the present F1 chapter 13 and the present I1 chapter 3
14.	Surveys	Present F1 chapter 14, with one spread omitted.
15.	Using symbols	Present I1 chapter 6 with no change
16.	Spending money	Present F1 chapter 16, with no changes
17.	Graphs	A mixture of present I1 and present F1
18.	Perimeter and Area	Present F1 chapter 17 with two extra spreads

19.	Three dimensions	Present F1 chapter 18, with one extra spread
20.	Earning money	Present F1 chapter 19 with one extra spread
21.	Estimation	A mixture of present F1 chapter 20 and present I1 chapter 12
22.	Equations	A mixture of present F1 chapter 21 and present I1 chapter 11
23.	Probability	Present F1 chapter 22 with some changes
24.	Using numbers	A mixture of spreads from three books
25.	Measuring and drawing	Present F2 chapter 2 with no changes
26.	Fractions	A mixture of spreads from three books
27.	Angles and shapes	Present F2 chapter 4 but one spread omitted
28.	Decimals	Present F2 chapter 5 but one spread omitted
29.	Sequences	Present F2 chapter 6 with no changes
30.	Percentages	Present F2 chapter 7 but one spread omitted
31.	Co-ordinates and graphs	Present F2 chapter 8 with one extra spread
32.	Statistics	Present F2 chapter 9 with one extra spread and a change in Finishing Off
33.	Formulae	Present F2 chapter 10 with no changes
34.	Equations & inequalities	Present F2 chapter 12 with one page changed
35.	Ratio & proportion	Present F2 chapter 13 with one extra spread
36.	Area and volume	A mixture of two present chapters
37.	Transformations	A mixture from three books
38.	Large data sets	A newly constructed chapter
39.	Locus	Present I2 chapter 12 with no changes

Changes

New chapter 4 Symmetry

Extra final spread (but before the Finishing Off) is present F2 pages 38 & 39, “Angles round a point and on a line”.

Present F1 page 58, include in the Finishing Off box the first two points from the left hand column of the Finishing Off box on page 52 of present F2.

New chapter 5 Fractions

On present F1 page 44 replace from “ ? How many pies ...” to the end by present I1 page 34, the bullet point on reciprocals plus two new discussion points

“ ? What is the reciprocal of 8 ?”

And

“ ? What happens if you multiply 8 and the reciprocal of 8 together ?”

On present F1 page 45, reduce the size of the picture of the milk bottles and then add in from present I1 page 35, questions 3 and 4

On present F1 page 50, include in the Finishing Off box “Find the reciprocal of a number and of a fraction”

On present F1 page 51, include an extra question

“Write down the reciprocal of (a) 6 (b) $\frac{1}{6}$ (c) 7 (d) $\frac{1}{7}$.”

Still on present F1 page 51, if space requires it, take out the Activity that is currently bottom right and reorganise the layout of question 11.

New chapter 9 Percentages

Extra final spread (but before the Finishing Off) is present I1 pages 38 & 39.

There is no need to add anything into the Finishing Off spread.

New chapter 10 Statistics

This is based on the present F1 chapter 10 but with the following changes.

The present F1 pages 98 & 99 are replaced by the present GCSE in a Year pages 280 & 281.

There is an additional last (but not Finishing Off) spread which is based on the present I1 pages 150 & 151. However, on the present I1 page 150 delete from “Imran decides to plot ...” to the end. Then enlarge the other diagram and use the remaining space at the bottom to include the following two discussion points.

“ ? Which team has the taller players ?”

And

“ ? In which team do the players have the more variable height ?”

And

On the present I1 page 151 question 2 part (i) change “cumulative frequency curve” to “frequency polygon”.

For the Finishing Off spread replace present F1 question 1 on page 106 by questions 1, 2 from the present I1 page 78. Renumber the questions on the present F1 page 107.

New chapter 13 Formulae

The first 3 spreads are taken from F1 chapter 13; they are pages 124 & 125, 126 & 127, 128 & 129.

The chapter then continues with the last 3 spreads from chapter 3 of the present I1, pages 28 & 29, 30 & 31, 32 & 33 (the Finishing Off spread).

New chapter 14 Surveys

This is the present F1 chapter 14 but with the third spread, i.e. pages 136 & 137, omitted.

New chapter 17 Graphs

The first 3 spreads are taken from the present I1 chapter 8, pages 80 & 81, 82 & 83, 84 & 85.

The next 2 spreads are taken from the present F1, pages 142 & 143, 144 & 145.

The chapter then goes back to the present I1 chapter 8, this time for pages 86 & 87.

The Finishing Off spread is a mixture of the present F1 pages 148 & 149 and the present I1 pages 90 & 91. The box is taken from I1 page 90 but the final point is replaced by the 3 points in the box on F1 page 148. The first 2 questions are those on I1 page 90 and these are followed by as many of the question from F1 pages 90 & 91 as can be fitted in. The final activity on F1 page 149 about the train ticket is omitted.

New chapter 18 Perimeter and Area

The first 2 spreads are from the present F1 chapter 17, pages 158 & 159, 160 & 161.

The next 2 spreads are from the present F2 chapter 14, pages 144 & 145, 146 & 147.

The next 2 spreads are from the present F1 chapter 17, pages 164 & 165, 166 & 167.

The finishing Off spread is based on that in the present F1, pages 168 & 169. However in the box on F1 page 168 the 7th bullet point should be deleted and replaced by the first two bullet points on F2 page 152. (Notice the style is a little different between F1 and F2.) On F1 page 169, replace the Investigation by question 1 parts (a), (b) and (d) from F2 page 152.

New chapter 19 Three dimensions

The first 4 spreads are those in the present F1 chapter 18, between pages 170 and 179.

The 5th spread is pages 52 & 53 from the present I1, “Surface area of a prism”.

The Finishing Off spread follows after this and is based on pages 178 & 179 in the present F1. However the final bullet point in the box on page 178 should be deleted and replaced by point 5 from the box on page 58 of the present I1. On page 179 delete the second investigation to make room for question 3 from I1 page 58.

New chapter 20 Earning money

After the first 3 spreads, pages 180-185 in the present F1, insert pages 112 & 113, “Tax” from the present F2. (Note: the figures might do with updating.)

New chapter 21 Estimation

Spread 1 is pages 188 & 189 from the present F1 chapter 20.

Spreads 2 & 3 are pages 130 & 131, 132 & 133 from the present I1 chapter 12.

Spread 4 is pages 190 & 191 from F1 chapter 20.

Spread 5 is pages 136 & 137 from I1 chapter 12.

The Finishing Odd spread is based on F1 pages 194 & 195. However in the box insert two new bullet points:

“* round to a given number of decimal places”

And

“* round to given number of significant figures”

Then delete the final Activity about the wedding reception from F1 page 195 and replace it with questions 1 and 4 from pages 142 in the present F1.

New chapter 22 Equations

The first two spreads are from the present F1 chapter 21, pages 196 & 197, 198 & 199.

The next two spreads are from the present I1 chapter 11, pages 120 & 121, 122 & 123.

The Finishing Off spread is from F1, pages 200 & 201. However, the box on page 200 should contain an extra bullet point

“* solve equations using brackets and fractions”.

New chapter 23 Probability

On present F1 page 202, replace the Discussion Point with

“ ? The probability of winning a game is $\frac{3}{5}$. What is the probability of losing ?”

In the Finishing Off, page 209 of the present F1, insert as question 7, what is now question 2 on page 181 of I1 with parts (a), (b) and (c) as at present but part (d) replaced by “(d) it is not blue”. In order to achieve this it may be necessary to reduce the Activity on page 209, for example by taking out the first 2 lines (in italics).

New chapter 24 Using numbers

Spread 1, “Number patterns” comes from the present F2, chapter 1, pages 10 & 11.

Spread 2, “Prime factorisation” comes from the present I1, chapter 1, pages 12 & 13.

Spread 3, “Standard form”, is from the present I1, chapter 1, pages 12 & 13.

Spread 4, “Rules of indices”, is from the present I2, chapter 8 pages 102 & 103.

Spreads 5 and 6, “Calculators” and “Brackets” come from F2 chapter 1, pages 14–17.

The Finishing Off spread is compiled from a variety of sources. The box on page 18 should consist of:

bullet points 4-8 from the box on page 14 of I1,

bullet point 7 from the box on page 19 of F2

and

bullet point 4 from the box on page 106 of I2.

The questions in the Finishing Off consist of:

F2 page 19, questions 9 to 16

I1 page 15, questions 11-14

and

I2 page pages 106 & 107, questions 1 to 5.

New chapter 26 Fractions

Spreads 1 and 2, “Multiplying fractions” and “Dividing fractions” come from the present I2 chapter 1 pages 6-9.

Spread 3, “Fractions to decimals” comes from the present F2 chapter 5, pages 58 & 59

Spread 4, “Fractions to percentages” comes from F2 chapter 7, pages 76 & 77.

Spread 5, “Making comparisons” comes from I1 chapter 4, pages 42 & 43.

The Finishing off spread comes from a variety of sources.

The bullet points in the box should be

“multiply and divide fractions”

“change fractions to decimals and percentages”

“make comparisons involving fractions decimals and percentages”.

The questions in the Finishing Off are as follows:

I2, chapter 1 pages 16 & 17 questions 1, 2 and 7

I1 chapter 4 pages 44 & 45 questions 2, 3, 4, 6, 8, 10, 11, 12.

Chapter 27 Angles and shapes

This chapter is the same as the present F2, chapter 4 pages 40 - 53; however the first spread in the present book on pages 38 & 39 is omitted.

Chapter 28 Decimals

This chapter is the same as the present F2, chapter 5 pages 54 – 57 and 60 - 61; however the third spread in the present book on pages 58 & 59 is omitted.

Chapter 30 Percentages

This chapter is the same as the present F2, chapter 7 pages 72 – 75 and 78 - 81; however the third spread in the present book on pages 76 & 77 is omitted.

Chapter 31 Co-ordinates and graphs

The first 3 spreads and the Finishing Off spread are taken from the present F2 chapter 8 and are unchanged.

However there is a new spread 4, “Curved graphs”, and this comes from the present I1 chapter 8, pages 88 & 89.

Chapter 32 Statistics

The first 3 spreads are the same as the present F2 chapter 9 pages 92 – 101.

Spread 4, “Line of best fit”, is a new spread brought in from the present I1 chapter 7 pages 76 & 77.

The Finishing Off spread is that from F2 chapter 9, pages 102 & 103. However, on page 102 replace question 1 with question 6 from I1 page 79.

Chapter 34 Equations and inequalities

This is the same as the present F2 chapter 12 except that page 125, the questions on “Trial & improvement” is replaced by the present I2 page 31.

Chapter 35 Ratio and proportion

The first 3 spreads are the same as in the present F2 chapter 13, pages 134 – 139.

The 4th spread, “Distance, speed and time” is brought in from the present I1 chapter 9, pages 100 & 101.

The Finishing off is based on F2 pages 140 and 141, but the box needs an extra bullet “solve problems with distance, speed and time” Also question 3 from page 103 of the present I1 should be included (this may involve some layout changes to make space).

Chapter 36 Area and volume

Spread 1, “Cuboids” comes from the present F2 chapter 14, pages 150 & 151.

Spread 2, “Volume of a prism” comes from the present I1 chapter 5, pages 50 & 51.

Spread 3, “More about prisms” comes from the present I1 chapter 5, pages 54 & 55.

In the Finishing Off spread the box has these bullet points:

- “* find the volume of a cuboid from the lengths of its sides”
- “* find the volume and surface area of a prism”
- “* find the other dimensions of a prism from the volume”

The questions in the Finishing Off will be:

Questions 3 and 4 from F2 page 153.

Questions 4, 5, 6 and 7 from I1 page 59.

Chapter 37 Transformations

The first 4 spreads are from the present I2 chapter 14, pages 152 – 159.

Spread 5, “Enlargements” is from f2 chapter 17, pages 178 & 179.

Spreads 6 and 7 are from I2 chapter 16, pages 176 – 179.

The Finishing Off is from F2 chapter 17, pages 180 & 181.

Chapter 39 Large data sets

Spread 1, “Mean, median and mode of groups” comes from I1 chapter 10, pages 110 & 111.

Spread 2, “Social statistics”, comes from F1 chapter 14 pages 136 & 137.

Finishing Off is based on I1 chapter 10, pages 118 & 119. In the box add another bullet point “* do Retail Price Index calculations”. Also delete questions 3 and 5 and insert questions 1 and 4 from GCSE in a Year page 294.