# Table of Contents, Essentials C

## Tutor Introduction

- Welcome to JUMP Student Essentials 2
- Working in Communities 3
- An Approach to JUMP Math Tutoring, Haroon Patel 7
- Hints For Helping Students Who Have Fallen Behind, John Mighton 12

## Teaching the Introductory Unit

- The Purpose of the Introductory Fraction Unit 15
- The Introductory Unit (Fractions) 26

## Mental Math Unit

- Why Mental Math? 35
- Addition and Subtraction 36
- How to Learn Your Times Tables in a Week 42

## Lessons

- Ordering Numbers to 100 46
- Ordinal Numbers 48
- Writing Ordinals 50
- Counting 51
- Increasing Sequences 54
- Counting Backwards 56
- Decreasing Sequences 58
- Extending a Pattern Using a Rule 60
- Identifying Pattern Rules 62
- Introduction to T-tables 64
- T-tables 67
- Repeating Patterns 71
- Extending Patterns & Predicting Positions 73
- Describing and Creating Patterns 77
- Place Value 80
- Writing Numbers 84
- Representation with Base Ten Materials 87
- Representation in Expanded Form 91
- Comparing and Ordering Numbers 94
- Differences of 10, 100, 1 000 or 10 000 97
- Rounding on a Number Line 101
- Rounding 102
- Regrouping 104
- Adding with Regrouping (or Carrying) 106
- Adding 3-Digit Numbers and Adding 4- and 5-Digit Numbers 108
- Subtraction 111
- Subtracting by Regrouping 113
- Parts and Totals 116
- Parts and Totals (Advanced) 117
- Addition and Subtraction 120
- Multiplying by Skip Counting and Adding On 123
- Adding Sequences of Numbers and Multiplication and Repeated Addition 124
- Arrays 130
- Multiplying by Adding On 136
- Multiples of 10 138
- Advanced Arrays 139
- Mental Math 141
Black Line Masters

- Line Up (1) 305
- Line Up (2) 306
- Line Up (3) 307
- Ordinal Match 308
- Ordinal Practice 309
- Pattern Blocks 310
- Fractions Strips 311
- Place Value Cards 312
- Number Line Chasing Game 313
- Blank Hundreds Charts 314
- 1-cm Grid Paper 315
- 2-cm Grid Paper 316
- Number Lines to Twenty 317