

# Table of Contents Year 5

**About the Planning and Assessment Guides..... 5**

**About the Textbooks ..... 6**

**Tracking progress..... 7**

**Year 5 curriculum links..... 8**

## **Number and place value**

Numbers up to 1,000,000 ..... 12

Counting in steps up to 1,000,000 ..... 14

Positive and negative numbers ..... 16

Rounding numbers ..... 18

Roman numerals ..... 20

## **Calculations**

Mental methods for adding and subtracting..... 21

Adding large numbers ..... 22

Subtracting large numbers ..... 24

Multiples and factors ..... 26

Prime numbers ..... 28

Multiplying large numbers ..... 30

Dividing large numbers ..... 32

Mental methods for multiplying and dividing..... 34

Square and cube numbers ..... 35

Multiplying and dividing by 10, 100 and 1000 ..... 36

Scaling and rates..... 38

Using all four operations ..... 40

## **Fractions, decimals and percentages**

Comparing and ordering fractions..... 42

Tricky fractions..... 44

Adding and subtracting fractions ..... 46

Multiplying fractions and whole numbers ..... 48

Converting simple decimals and fractions ..... 50

Decimal fractions ..... 52

Numbers with three decimal places ..... 54

Rounding decimals..... 56

Simple percentages..... 58

## **Measurement**

Length and distance ..... 60

Perimeter ..... 62

Area ..... 64

Mass, capacity and volume ..... 66

Time ..... 68

Money ..... 70

## **Geometry**

Angle facts ..... 72

Rotating angles ..... 74

2D shapes ..... 76

3D shapes ..... 78

Reflecting and translating shapes ..... 80

## **Statistics**

Line graphs ..... 82

Tables and timetables ..... 84

**Year 5 answers ..... 168**

# Table of Contents Year 6

**About the Planning and Assessment Guides..... 5**

**About the Textbooks ..... 6**

**Tracking progress..... 7**

**Year 6 curriculum links..... 10**

## **Number and place value**

The number system..... 86

Numbers to 10,000,000 ..... 88

Estimation and rounding ..... 90

Negative numbers ..... 92

## **Calculations**

Addition and subtraction..... 94

Multiplication and division facts and skills..... 96

Written methods for long multiplication ..... 98

Written methods for short division..... 100

Written methods for long division ..... 102

Ordering operations..... 104

Factors, multiples and prime numbers ..... 106

## **Fractions, decimals and percentages**

Simplifying fractions..... 108

Comparing and ordering fractions..... 110

Adding and subtracting fractions ..... 112

Multiplying fractions ..... 114

Dividing fractions ..... 116

Decimal equivalents..... 118

Decimal places ..... 120

Multiplying decimals ..... 122

Dividing decimals..... 124

Percentage equivalents..... 125

## **Ratio and proportion**

Ratio and proportion: numbers..... 126

Ratio and proportion: percentages ..... 128

Scale factors ..... 130

## **Algebra**

Using simple formulae ..... 132

Missing numbers ..... 134

Equations with two unknowns ..... 136

## **Measurement**

Converting units ..... 138

Using measures..... 140

Perimeter and area ..... 142

Calculating area..... 144

Calculating volume ..... 146

## **Geometry**

Angles ..... 148

Properties of 2D shapes ..... 150

Drawing 2D shapes ..... 152

3D shapes..... 154

Circles ..... 156

Positive and negative coordinates..... 158

Reflecting and translating shapes ..... 160

## **Statistics**

Pie charts ..... 162

Line graphs ..... 164

Averages ..... 166

**Year 6 answers ..... 172**