

Year 5 End of Unit Milestones

Spring Term – TEXTBOOK 5B

Chapter 6 Fractions, Decimals & Percentages: Fractions

By the end of this unit, children will be able to:

- divide whole numbers to create fractions; to create mixed numbers and improper fractions when dividing whole numbers
- write improper fractions and mixed numbers using a number line and pictorial methods
- find equivalent fractions using pictorial methods
- compare and order fractions using the pictorial method
- compare and order improper fractions using the pictorial method
- compare mixed numbers using pictorial representations; to find common denominators where one fraction is already the common denominator for all fractions in the question
- make number pairs (number bonds) with fractions with different denominators
- add unlike fractions by finding a common denominator using pictorial methods
- add unlike fractions by finding a common denominator using pictorial methods
- add together unlike fractions where the sum is greater than 1, creating mixed numbers or improper fractions
- add unlike fractions which create improper fractions and mixed numbers that give rise to simplification
- subtract fractions with different denominators; to subtract fractions from whole numbers
- subtract fractions where the denominators are not the same; to use bar models as a key strategy for subtracting fractions
- subtract fractions and mixed numbers from mixed numbers with different denominators
- multiply fractions by whole numbers creating other fractions, mixed numbers or improper fractions
- multiply fractions by whole numbers where the product is an improper fraction or mixed number
- multiply mixed numbers by whole numbers, creating larger mixed numbers
- multiply mixed numbers by whole numbers in multi-step word problems.

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Chapter 7 Fractions, Decimals Percentages: Decimals

By the end of this unit, children will be able to:

- read and write decimals
- compare tenths and hundredths written as decimals
- order and compare decimals
- compare and order decimals of amounts
- write fractions as decimals
- add and subtract amounts in decimals
- add and subtract decimals; to add and subtract amounts in pounds and pence
- add and subtract decimals to find the smallest possible sum and difference
- add and subtract decimals; to find number pairs that add up to 1
- add and subtract the perimeter of an object using decimals
- round decimals to the nearest whole number; to round numbers to nearest tenth.

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Chapter 8 Fractions, Decimals Percentages: Percentages

By the end of this unit, children will be able to:

- compare quantities
- compare fractions, decimals and percentages
- convert fractions to decimals and percentages
- convert values of an amount into percentages
- convert fractions into percentages.

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Chapter 9 Geometry – Properties of Shape: Geometry

By the end of this unit, children will be able to:

- know the names and qualities of acute, right, obtuse and reflex angles
- measure angles using a protractor
- draw, measure and add angles using a protractor
- measure angles using a protractor; to identify two angles which add up to 180 degrees on a straight line
- investigate angles that, when combined, make 360 degrees
- draw angles using a protractor
- draw lines and angles with a high level of accuracy
- describe the sides and angles of both rectangles and squares
- investigate the angles of various quadrilaterals, including squares and rectangles
- solve problems involving angles in rectangles
- solve problems involving angles
- use our understanding of angles to solve problems
- investigate and explain the properties of regular polygons.

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Chapter 10 Geometry – Position and Direction: Position and Movement

By the end of this unit, children will be able to:

- name and plot points
- describe the position of a shape following a translation
- describe movements and reflecting shapes
- describe the movement of a 2-D shape when reflected
- reflect a shape more than once.

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Chapter 11 Measurement: Measurement

By the end of this unit, children will be able to:

- convert units of length
- convert units of length, including centimetres and metres
- convert units of length
- solve problems by converting units of length
- convert units of mass, including grams into kilograms
- convert units of time
- convert units of time from days into weeks and months
- solve problems by converting units of time
- convert units of time
- read the temperature on a thermometer.

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Chapter 12 Measurement: Area and Perimeter

By the end of this unit, children will be able to:

- find the perimeter of shapes
- find shapes with a specific perimeter
- find the perimeter of different shapes
- use scale diagrams to find the perimeter of a shape
- measure the area of shapes by counting squares
- measure the area of squares
- measure the area of a shape
- measure area in square metres
- find the area of shapes in square metres.
- make an estimation of area in kilometres.

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Chapter 13 Measurement: Volume

By the end of this unit, children will be able to:

- understand the volume of solids
- find the volume of 3-D shapes
- find the volume of solids
- find the capacity of a cuboid
- find the capacity of rectangular boxes
- compare and convert units of volume
- convert units of volume (metric and imperial)
- solve word problems involving volume.

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Chapter 13 Number and Place Value: Roman Numerals

By the end of this unit, children will be able to:

- write Roman numerals to 1000
- write numbers in their thousands in Roman numerals.