

# Year 8 Maths Term 1

## 1. Percentages and money

- Finding percentages of amounts
- Percentage change
- Value for money

WT

WA

WB

1

2

3

4

5

- Index rules
- Simplifying expressions using index laws
- Simplifying algebraic fractions by cancelling common factors

WT

WA

WB

## 2. Index laws

## 3. Solving equations

- Equations of the form  $(x+a)/b=c$
- Linear equations involving brackets
- The unknown on both sides
- The unknown in the denominator
- Constructing and solving equations

WT

WA

WB

## 5. Ratio

- Writing and simplifying ratios
- Writing ratios in the form 1:n
- Ratios, fractions and percentages
- Sharing amounts in a given ratio
- Drawing and interpreting scale diagrams

WT

WA

WB

- Term-to-term rules for number sequences and patterns
- Substituting into position-to-term rules
- Position-to-term rules for arithmetic sequences and patterns

WT

WA

WB

## 4. Sequences

# Year 8 Maths Term 2

## 1. Rounding and Coordinates

- Rounding integers and decimals using significant figures
- Estimating calculations
- Calculating midpoints
- Solving shape properties involving coordinates

WT WA WB

## 3. Standard Form

- Using standard form with positive indices
- Using standard form with negative indices

WT WA WB

## 5. 3D shapes, S.A. and Volume

- Properties and nets of 3D shapes
- Surface area of cuboids and prisms
- Finding the volume of cuboids and prisms
- Converting units of volume

WT WA WB

1

2

3

4

5

- Area of parallelograms and trapeziums
- Converting units of area
- Identifying parts of circles
- Finding the circumference of circles
- Finding the area of circles

## 2. Area and Circles

- Venn diagrams
- Probabilities from Venn diagrams
- Finding the HCF and LCM using prime factor decomposition

WT WA WB

## 4. Venn diagrams

# Year 8 Maths Term 3

## 1. Linear graphs and Transformations

- Plotting horizontal and vertical lines
- Plotting straight line graphs
- Finding equations of straight line graphs
- Translation
- Reflection

WT WA WB

## 3. Statistical diagrams

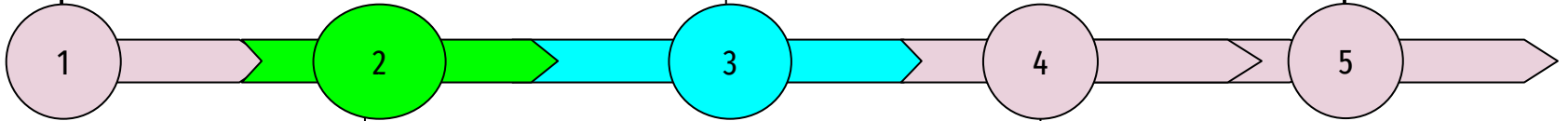
- Drawing and Interpreting pie charts
- Drawing and Interpreting line graphs
- Drawing and Interpreting stem-and-leaf diagrams
- Finding averages from diagrams

WT WA WB

## 5. Algebraic fractions & Recurring decimals

- Calculating with fractions
- Simplifying algebraic fractions by factorising
- Adding and subtracting algebraic fractions
- Using recurring decimal notation
- Converting fractions to recurring decimals

WT WA WB



- Angles in quadrilaterals
- Combining angle facts
- Angles on parallel lines
- Using quadrilateral properties to find angles
- Angles in polygons

WT WA WB

## 2. Angles

- Reading and drawing linear inequalities on number lines
- Solving single inequalities
- Expanding double brackets

WT WA WB

## 4. Inequalities and brackets

# Colour key

Number



Algebra



Shape



Data



Ratio and proportion

