

# Year 7 Maths

## Autumn term

### Weeks 1-2: Sequences

#### **Videos**

[Linear and Non Linear Sequences](#)

[Explain the term to term rule](#)

#### **Exercises**

[Linear and Non Linear Sequences](#)

[Explain the term to term rule](#)

### Weeks 3-4: Understand and use Algebraic Notation

#### **Videos**

[Substitute values into single operation expressions](#)

[Substitute values into two-step expressions](#)

#### **Exercises**

[Substitute values into single operation expressions](#)

[Substitute values into two-step expressions](#)

### Weeks 5-6 Equality and Equivalence

#### **Videos**

[Understand and Use Fact Families](#)

[Understand the meaning of like and unlike terms](#)

#### **Exercises**

[Understand and Use Fact Families](#)

[Understand the meaning of like and unlike terms](#)

### Weeks 7-9 Place Value, Ordering Integers & Decimals

#### **Videos**

[Compare two numbers using equality and inequality notation](#)

[Understand place value for decimals](#)

[Position Decimals on a Number Line](#)

[Round a number to 1 significant figure](#)

#### **Exercises**

[Compare two numbers using equality and inequality notation](#)

[Understand place value for decimals](#)

[Position Decimals on a Number Line](#)

[Round a number to 1 significant figure](#)

## **Weeks 10-12 Fraction, Decimal & Percentage Equivalence**

### **Videos**

[Convert fluently between simple fractions, decimals and percentages](#)

[Represent fractions on number lines](#)

[Identify and use simple equivalent fractions](#)

[Convert fluently between fractions, decimals and percentages](#)

### **Exercises**

[Convert fluently between simple fractions, decimals and percentages](#)

[Represent fractions on number lines](#)

[Identify and use simple equivalent fractions](#)

[Convert fluently between fractions, decimals and percentages](#)

## **Spring term**

### **Weeks 1-2 Solving Problems with Addition and Subtraction**

#### **Videos**

[Use formal methods for addition of integers](#)

[Use formal methods for subtraction of integers](#)

[Use formal methods for addition of decimals](#)

[Use formal methods for subtraction of decimals](#)

#### **Exercises**

[Use formal methods for addition of integers](#)

[Use formal methods for subtraction of integers](#)

[Use formal methods for addition of decimals](#)

[Use formal methods for subtraction of decimals](#)

### **Weeks 3-5 Solving Problems with Multiplication and Division**

#### **Videos**

[Use formal methods to multiply integers](#)

[Use formal methods to multiply decimals](#)

[Use formal methods to divide integers](#)

[Use formal methods to divide decimals](#)

#### **Exercises**

[Use formal methods to multiply integers](#)

[Use formal methods to multiply decimals](#)

[Use formal methods to divide integers](#)

[Use formal methods to divide decimals](#)

## **Weeks 6 Fractions and Percentages of Amounts**

### **Videos**

[Find a Fraction of an Amount](#)

[Find a percentage of a given amount using mental methods](#)

[Find a percentage of a given amount using a calculator](#)

### **Exercises**

[Find a Fraction of an Amount](#)

[Find a percentage of a given amount using mental methods](#)

[Find a percentage of a given amount using a calculator](#)

## **Weeks 7-9 Operations and Equations with Directed Numbers**

### **Videos**

[Add directed numbers](#)

[Subtract directed numbers](#)

[Multiplication and Division of directed numbers](#)

[Evaluate algebraic expressions with directed number](#)

### **Exercises**

[Add directed numbers](#)

[Subtract directed numbers](#)

[Multiplication and Division of directed numbers](#)

[Evaluate algebraic expressions with directed number](#)

## **Weeks 10-12 Addition and Subtraction of Fractions**

### **Videos**

[Add and subtract fractions with the same denominator](#)

[Add and subtract fractions with any denominator](#)

### **Exercise**

[Add and subtract fractions with the same denominator](#)

[Add and subtract fractions with any denominator](#)

## **Summer term**

### **Weeks 1-3 Constructing, measuring & using geometric notation**

#### **Videos**

[Understand angles as a measure of turn](#)

[Measure angles up to 180°](#)

[Draw angles up to 180°](#)

[Draw and measure angles between 180° and 360°](#)

[Construct triangles using SSS](#)

#### **Exercises**

[Understand angles as a measure of turn](#)

[Measure angles up to 180°](#)

[Draw angles up to 180°](#)

[Draw and measure angles between 180° and 360°](#)

[Construct triangles using SSS](#)

### **Weeks 4-6 Developing Geometric Reasoning**

#### **Videos**

[Understand and use the sum of angles at a point](#)

[Understand and use the sum of angles on a straight line](#)

[Know and apply the sum of angles in a triangle](#)

[Know and apply the sum of angles in a quadrilateral](#)

#### **Exercises**

[Understand and use the sum of angles at a point](#)

[Understand and use the sum of angles on a straight line](#)

[Know and apply the sum of angles in a triangle](#)

[Know and apply the sum of angles in a quadrilateral](#)

### **Weeks 7-8 Developing Number Sense**

#### **Videos**

[Use estimation as a method for checking mental calculations](#)

[Use known number facts to derive other facts](#)

#### **Exercises**

[Use estimation as a method for checking mental calculations](#)

[Use known number facts to derive other facts](#)

## **Weeks 9-10 Sets and Probability**

### **Videos**

[Identify and represent sets](#)

[Interpret and create Venn diagrams](#)

[Understand and use the intersection of sets](#)

[Understand and use the union of sets](#)

### **Exercises**

[Identify and represent sets](#)

[Interpret and create Venn diagrams](#)

[Understand and use the intersection of sets](#)

[Understand and use the union of sets](#)

## **Weeks 11-12 Prime Numbers and Proof**

### **Videos**

[Recognise and identify prime numbers](#)

[Recognise square and triangular numbers](#)

[Find common factors of a set of numbers including the HCF](#)

[Find common multiples of a set of numbers including the LCM](#)

### **Exercises**

[Recognise and identify prime numbers](#)

[Recognise square and triangular numbers](#)

[Find common factors of a set of numbers including the HCF](#)

[Find common multiples of a set of numbers including the LCM](#)