

Subject: Mathematics

Year 7 Autumn Term (Half Term 1)

Assessment Date (Week beginning – 21st October)

Knowledge to be Assessed

| Topic | Unit Code |
|--|-----------|
| Order Integers & Decimals | 1.1 |
| Rounding (Integers to the nearest 10, 100, 1000 ...) | 1.2 |
| Rounding (Decimal Places) | 1.3 |
| Rounding (Integers to Significant Figures) | 1.4 |
| Rounding (Decimals to Significant Figures) | 1.5 |
| Multiplying & Dividing by Powers of 10 | 1.6 |
| Adding & Subtracting (Integers & Decimals) | 2.1 |
| Four Operations (Negative Numbers) | 2.2 |
| Multiplying (Integers & Decimals) | 2.3 |
| Dividing (Integers) | 2.4 |
| Dividing (Decimals) | 2.5 |
| Dividing (Recurring Decimal) | 2.6 |
| Powers - Read, Write & Evaluate | 2.7 |
| BODMAS | 2.8 |
| Estimation | 2.9 |
| Introduction to Algebra | 2.10 |
| Substitution | 2.11 |
| Generating Linear Sequences | 3.1 |
| Generating Non-linear Sequences | 3.2 |
| Recognise Sequences | 3.3 |
| Prime Numbers & Factors | 3.4 |
| HCF & LCM | 3.5 |

Skills to be Assessed

Use and apply standard techniques:

- Accurately recall facts, terminology, and definitions.
- Use and interpret notation correctly.
- Accurately carry out routine procedures or set tasks requiring multi-step solutions.

Reason, interpret and communicate mathematically:

- Make deductions, inferences and draw conclusions from mathematical information.
- Construct chains of reasoning to achieve a given result.
- Interpret and communicate information accurately.
- Present arguments and proofs.
- Assess the validity of an argument and critically evaluate a given way of presenting information.

Solve problems within mathematics and in other contexts:

- Translate problems in mathematical or non-mathematical contexts into a process or a series of mathematical processes.
- Make and use connections between different parts of mathematics.
- Interpret results in the context of the given problem.
- Evaluate methods used and results obtained.
- Evaluate solutions to identify how they may have been affected by assumptions made

Resources to help Revision



| Tasks | Unit Code |
|--|-----------|
| MyMaths - Ordering Whole Numbers / Ordering Decimals | 1.1 |
| MyMaths - Rounding to 10, 100 | 1.2 |
| MyMaths - Decimal Places | 1.3 |
| MyMaths - Significant Figures | 1.4 |
| MyMaths - Negative Numbers 2 | 2.2 |
| MyMaths - Short & Long Multiplication / Multiply Two Decimals | 2.3 |
| MyMaths - Short Division / Long Division | 2.4 |
| MyMaths - Dividing Decimals by Whole Numbers / Dividing a Decimal by a Decimal | 2.5 |
| MyMaths - Recurring Decimals 1 | 2.6 |
| MyMaths - Squares and Cubes | 2.7 |
| MyMaths - Order of Operations | 2.8 |
| MyMaths - Estimating Introduction | 2.9 |
| MyMaths - Introduction to Algebra / Function Machines | 2.10 |
| MyMaths - Substitution 1 | 2.11 |
| MyMaths - Sequences | 3.1 |

Grade Descriptors: How is the assessment graded?

| Emerging | Developing | Secure | Mastering | Extending |
|--|---|--|--|--|
| Student show a basic knowledge of mathematics. | Students show partial knowledge of mathematics. | Students show secure knowledge of mathematics. | Students show very good knowledge of mathematics. | Students show comprehensive knowledge of mathematics. |
| Students demonstrate an understanding of less than 25% of content. | Students demonstrate an understanding between 25% and 40% of the content. | Students demonstrate an understanding of between 40% and 60% of the content. | Students demonstrate an understanding of between 60% and 75% of the content. | Students demonstrate an understanding of more than 75% of content. |

Subject: Mathematics

Year 7 Autumn Term (Half Term 2)

Assessment Date (Week beginning – 9th December)

Knowledge to be Assessed

| Topic | Unit Code |
|------------------------------|-----------|
| Distributive Law | 4.1 |
| Use Cancellation | 4.2 |
| Collecting Algebraic Terms | 4.3 |
| Multiplying Algebraic terms | 4.4 |
| Dividing Algebraic terms | 4.5 |
| Expand Single Brackets | 4.6 |
| Simplify Complex Expressions | 4.7 |
| Geometry Notation | 5.1 |
| Classifying 2D & 3D Shapes | 5.2 |
| Parts of a Circle | 5.3 |
| Classifying Angles | 5.4 |
| Identifying Angles | 5.5 |
| Measuring Angles | 5.6 |
| Properties of Triangles | 5.7 |
| Properties of Quadrilaterals | 5.8 |
| Angles in Parallel Lines | 5.9 |
| Angle Reasoning | 5.10 |

Skills to be Assessed

Use and apply standard techniques:

- Accurately recall facts, terminology, and definitions.
- Use and interpret notation correctly.
- Accurately carry out routine procedures or set tasks requiring multi-step solutions.

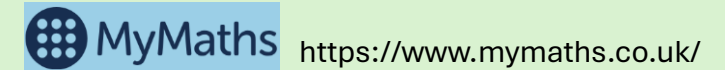
Reason, interpret and communicate mathematically:

- Make deductions, inferences and draw conclusions from mathematical information.
- Construct chains of reasoning to achieve a given result.
- Interpret and communicate information accurately.
- Present arguments and proofs.
- Assess the validity of an argument and critically evaluate a given way of presenting information.

Solve problems within mathematics and in other contexts:

- Translate problems in mathematical or non-mathematical contexts into a process or a series of mathematical processes.
- Make and use connections between different parts of mathematics.
- Interpret results in the context of the given problem.
- Evaluate methods used and results obtained.
- Evaluate solutions to identify how they may have been affected by assumptions made

Resources to help Revision



| Tasks | Unit Code |
|--|-----------|
| MyMaths - 7 x (Multiplying / Dividing Tasks) | 4.1 |
| MyMaths - Simplifying 1 | 4.3 |
| MyMaths - Simplifying 2 | 4.4 |
| MyMaths - Single Brackets | 4.6 |
| MyMaths - 2D and 3D Shapes / 3D Shapes | 5.2 |
| MyMaths - Parts of a Circle | 5.3 |
| MyMaths - Angles 2 / Angles 3 | 5.4 |
| MyMaths - Angles 4 | 5.5 |
| MyMaths - Measuring Angles | 5.6 |
| MyMaths - Angles in Parallel Lines | 5.9 |
| MyMaths - Angles Reasoning / Angle Sums | 5.10 |

Grade Descriptors: How is the assessment graded?

| Emerging | Developing | Secure | Mastering | Extending |
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Subject: Mathematics

Year 7 Spring Term (Half Term 3)

Assessment Date (Week beginning – 10th February)

Knowledge to be Assessed

| Topics | Unit Code |
|---|-----------|
| Fractions of Amounts | 6.1 |
| Equivalent Fractions | 6.2 |
| Comparing Fractions | 6.3 |
| FDP (Fractions and Percentages) | 6.4 |
| FDP (Decimals and Percentages) | 6.5 |
| FDP (Ordering) | 6.6 |
| Percentages of Amounts (Non-Calculator) | 6.7 |
| Percentage Increase/Decrease (Non-Calculator) | 6.8 |
| Percentages of Amounts (Calculator) | 6.9 |
| Percentage Increase/Decrease (Calculator) | 6.10 |
| Bar Charts | 7.1 |
| Pictograms | 7.2 |
| Venn Diagrams | 7.3 |
| Grouping Data | 7.4 |
| Median & Range | 7.5 |
| Mean & Mode | 7.6 |
| Two Way Tables | 7.7 |

Skills to be Assessed

Use and apply standard techniques:

- Accurately recall facts, terminology, and definitions.
- Use and interpret notation correctly.
- Accurately carry out routine procedures or set tasks requiring multi-step solutions.

Reason, interpret and communicate mathematically:

- Make deductions, inferences and draw conclusions from mathematical information.
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Solve problems within mathematics and in other contexts:

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- Make and use connections between different parts of mathematics.
- Interpret results in the context of the given problem.
- Evaluate methods used and results obtained.
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Resources to help Revision



| Tasks | Unit Code |
|---|-----------|
| MyMaths - Fractions of Amounts / Fractions as Operators 2 / Finding Fractions | 6.1 |
| MyMaths - Simple Equivalent Fractions / Equivalent Fractions | 6.2 |
| MyMaths - Frac dec perc 1 | 6.5 |
| MyMaths - Frac dec perc 2 / Ordering Decimals | 6.6 |
| MyMaths - Percentages of Amounts 1 | 6.7 |
| MyMaths - Percentages of Amounts 2 | 6.9 |
| MyMaths - Percentage Change 1 | 6.10 |
| MyMaths - Bar Charts & Frequency Tables | 7.1 |
| MyMaths - Pictograms & Bar Charts | 7.2 |
| MyMaths - Introducing Data | 7.3 |
| MyMaths - Grouping Data | 7.4 |
| MyMaths - Median & Range | 7.5 |
| MyMaths - Mean & Mode / All Averages | 7.6 |
| MyMaths - Two Way Tables | 7.7 |

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Subject: Mathematics

Year 7 Spring Term (Half Term 4)

Assessment Date (Week beginning – 31st March)

Knowledge to be Assessed

| Topics | Unit Code |
|--|-----------|
| Adding & Subtracting Fractions | 8.1 |
| Multiplying & Dividing Fractions | 8.2 |
| Mixed Number Conversion | 8.3 |
| Language of Probability & Probability Line | 8.4 |
| Theoretical Probability | 8.5 |
| Missing Probabilities | 8.6 |
| Perimeter of Polygons | 9.1 |
| Area of Squares & Rectangles | 9.2 |
| Area of a Parallelogram | 9.3 |
| Area of a Triangle | 9.4 |
| Circumference of a Circle | 9.5 |
| Area of a Circle | 9.6 |
| Volume of a Cuboid | 9.7 |
| Scatter Graphs (Construct) | 10.1 |
| Scatter Graphs (Interpret) | 10.2 |
| Pie Charts (Construct) | 10.3 |
| Pie Charts (Interpret) | 10.4 |

Skills to be Assessed

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Resources to help Revision



| Tasks | Unit Code |
|---|-----------|
| MyMaths - Adding Subtracting Fractions | 8.1 |
| MyMaths - Multiplying Fractions by Fractions | 8.2 |
| MyMaths - Introducing Improper & Mixed Fractions / Improper & Mixed Fractions | 8.3 |
| MyMaths - Simple Probability | 8.5 |
| MyMaths - Introducing Perimeter / Perimeter | 9.1 |
| MyMaths - Introducing Area / Area of Rectangles | 9.2 |
| MyMaths - Area of a Parallelogram | 9.3 |
| MyMaths - Area of a Triangle | 9.4 |
| MyMaths - Circumference of a Circle (Small Step) | 9.5 |
| MyMaths - Area of a Circle (Small Step) | 9.6 |
| MyMaths - Volume & Capacity / Volume of Cuboids | 9.7 |
| MyMaths - Scatter Graphs | 10.1 |
| MyMaths - Drawing Pie Charts | 10.3 |
| MyMaths - Reading Pie Charts | 10.4 |

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