# TWO RIVERS
## HIGH SCHOOL

**Two Rivers High School**

**Explorers – Year 9 & 10**

**Knowledge and Skills**

| | Autumn 2022-23 | | Spring 2022-23 | | Summer 2022-23 | |
|---|---|---|---|---|---|---|
| | Properties of Number | The Four Operations | Money | Geometry | Ratio | Decimals and Percentages |
| Read, write and order numbers up to 1000 | ■ | | ■ | | | |
| Recognise place value in three-digit numbers | ■ | ■ | ■ | | | |
| Round numbers <1000 to the nearest 1000 | ■ | | ■ | | | |
| Round numbers <1000 to the nearest 100 | ■ | | ■ | | | |
| Find 10 or 100 more or less than a given number | ■ | | | | | |
| Recognise and use multiples of 2, 3, 4, 5, 8, 10, 50 and 100 | ■ | ■ | | | ■ | |
| Understand and identify odd and even numbers | ■ | | | | | |
| Add and subtract using three-digit numbers | | ■ | ■ | | | ■ |
| Multiply a two-digit whole number by a single digit whole number | | ■ | ■ | | | ■ |
| Divide a two-digit whole number by a single digit whole number | | ■ | ■ | | | ■ |
| Use and interpret +, -, x, ÷ in real-life situations for solving problems | | ■ | ■ | | | ■ |

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| Skill | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Use inverse operations to find missing numbers | | ■ | ■ | | | | ■ |
| Estimate the answer to a calculation | | ■ | ■ | | | | ■ |
| Identify or show unit fractions up to one tenth of a quantity up to 100 | | | | | | ■ | |
| Work out unit fractions to one tenth of a number up to 100 | | | | | | ■ | |
| Work out any number of thirds, quarters, fifths or tenths of a quantity | | | | | | ■ | |
| Recognise and identify equivalent fractions | | | | | | ■ | |
| Add and subtract fractions with the same denominator within one whole | | | | | | ■ | |
| Appreciate the purchasing power of amounts of money | | | ■ | | | | |
| Exchange notes for an equivalent value in coins | | ■ | ■ | | | | |
| Use decimal notation for money | | | ■ | | | | |
| Interpret a calculator display | | | ■ | | | | |
| Solve real-life problems involving what to buy and how to pay | | ■ | ■ | | | | |
| Add up to three lengths of time given in minutes and hours | | ■ | | | | | |
| Add lengths, capacities and weights and compare the total to another total or a requirement | | ■ | | | | | |
| Convert standard units of length, weight and capacity | ■ | ■ | | | | | |
| Measure the perimeter of a simple shape | | ■ | | | | | |
| Recognise and name common 2D and 3D shapes | | | | | ■ | | |

| | | | | | |
|---|---|---|---|---|---|
| Draw lines of symmetry on shapes or pictures | | | | ■ | | |
| Recognise and draw nets of cubes and cuboids | | | | ■ | | |
| Identify whether an angle is less or more than a right angle | | | | ■ | | |
| Identify horizontal, vertical and parallel lines | | | | ■ | | |
| Read co-ordinates in the first quadrant | | | | ■ | | |
| Use points of the compass to give directions | | | | ■ | | |
| Read, write and use decimals up to two decimal places | | | ■ | | | ■ |
| Recognise and continue sequences that involve decimals | | | | | | ■ |
| Multiply one-digit numbers with up to two decimal places by whole numbers | | ■ | | | | ■ |
| Use written division methods in cases where the answer has up to two decimal places | | ■ | | | | ■ |
| define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal, interpret these multiplicatively, express one quantity as a percentage of another, compare two quantities using percentages, and work with percentages greater than 100% | | | | | | ■ |

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| Skills | Autumn 2023-24 | | Spring 2023-24 | | Summer 2023-24 | |
|---|---|---|---|---|---|---|
| | Properties of Number | The Four Operations | The Calendar and Time | Measures | Statistics | Algebra |
| Read, write and order numbers up to 1000 | ■ | | | ■ | | |
| Recognise place value in three-digit numbers | ■ | ■ | | | | |
| Round numbers <1000 to the nearest 1000 | ■ | | | | | |
| Round numbers <1000 to the nearest 100 | ■ | | | | | |
| Find 10 or 100 more or less than a given number | ■ | | | | | |
| Recognise and use multiples of 2, 3, 4, 5, 8, 10, 50 and 100 | ■ | ■ | | | | |
| Understand and identify odd and even numbers | ■ | | | | | |
| Add and subtract using three-digit numbers | | ■ | | ■ | | |
| Multiply a two-digit whole number by a single digit whole number | | ■ | | | | |
| Divide a two-digit whole number by a single digit whole number | | ■ | | | | |
| Use and interpret +, -, x, ÷ in real-life situations for solving problems | | ■ | | ■ | | |
| Use inverse operations to find missing numbers | | ■ | | | | ■ |
| Estimate the answer to a calculation | | ■ | | ■ | | |
| Solve real-life problems involving what to buy and how to pay | | ■ | | | | |

| Skill | | | | | | |
|---|---|---|---|---|---|---|
| Solve problems involving time | | | ■ | | | |
| Convert between different units of time (seconds, minutes, hours, days, weeks. Year) | | | ■ | | | |
| Use a calendar and write the date correctly (day/ month/ year) | | | ■ | | | |
| Tell and write the time from an analogue clock, including using Roman Numerals | | | ■ | | | |
| Understand, use and convert between the 12-hour and 24-hour clock systems | | | ■ | | | |
| Add up to three lengths of time given in minutes and hours | | ■ | ■ | | | |
| Add lengths, capacities and weights and compare the total to another total or a requirement | | ■ | | ■ | | |
| Convert standard units of length, weight and capacity | ■ | ■ | | ■ | | |
| Compare and order lengths, capacities and weights in different standard units | | | | ■ | | |
| Measure the perimeter of a simple shape | | ■ | | ■ | | |
| Choose an appropriate measuring instrument | | | | ■ | | |
| Read values from an appropriate scale | | | | ■ | | |
| Read and compare temperature including negative values | | | | ■ | | |
| Construct and interpret bar charts | | | | | ■ | |
| Construct and interpret pictograms | | | | | ■ | |
| Extract numerical information from lists, tables, diagrams and charts | | | | | ■ | |
| Complete a tally chart and frequency table | | | | | ■ | |
| Compare two or more diagrams | | | | | ■ | |

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| | | | | | | |
|---|---|---|---|---|---|---|
| Solve one-step and two-step problems based on statistical information | | | | | ■ | |
| Read, write and use decimals up to two decimal places | | | | ■ | | |
| Multiply one-digit numbers with up to two decimal places by whole numbers | | ■ | | | | |
| Use written division methods in cases where the answer has up to two decimal places | | ■ | | | | |
| define percentage as 'number of parts per hundred', interpret percentages and percentage changes as a fraction or a decimal, interpret these multiplicatively, express one quantity as a percentage of another, compare two quantities using percentages, and work with percentages greater than 100% | | ■ | | | | |
| Use simple formulae | | | | | | ■ |
| Express missing number problems algebraically | | | | | | ■ |
| Find pairs of numbers that satisfy an equation with two unknowns | | | | | | ■ |
| Enumerate possibilities of combinations of two variables | | | | | | ■ |
| Be introduced to the use of symbols and letters to represent variables and unknowns in mathematical situations that they already understand | | | | | | ■ |