

Maths Oak Academy Work Half Term 2

| 3. Equality and Equivalence | Hegarty | Oak Academy Link |
|---|------------|--|
| Understand the meaning of equality. | | https://classroom.thenational.academy/lessons/equations-and-identities-c8vk6t |
| Understand and use fact families, numerically and algebraically. | 3, 6, 7, 8 | https://classroom.thenational.academy/lessons/solving-word-problems-with-unknown-values-cgtpcd https://classroom.thenational.academy/lessons/change-the-subject-of-a-formula-6hhp2t |
| Solve one-step linear equations involving \pm using inverse operations. | 178 | https://classroom.thenational.academy/lessons/solving-one-step-equations-chk32d |
| Solve one-step linear equations involving \times/\div using inverse operations. | 178 | See above |
| Understand the meaning of like and unlike terms. | | https://classroom.thenational.academy/lessons/expressions-and-variables-ccrk6d |
| Understand the meaning of equivalence. | | https://classroom.thenational.academy/lessons/equating-linear-expressions-6rr66c |
| Simplify algebraic expressions by collecting like terms. | 156-157 | https://classroom.thenational.academy/lessons/collecting-like-terms-6tgg8r |

| 4 - Place Value and Ordering Integers and Decimals | Hegarty | Oak Academy Link |
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| Recognise the place value of any number in an integer up to one billion. | 13 | https://classroom.thenational.academy/lessons/place-value-application-lesson-6dk3er |
| Understand and write integers up to one billion in words and figures. | 13 | https://classroom.thenational.academy/lessons/representing-number-70ukct |
| Work out intervals on a number line. | | http://corbettmaths.com/2013/04/27/reading-scales/ |
| Position integers on a number line. | | https://classroom.thenational.academy/lessons/to-compare-numbers-within-100-on-a-number-line-60wpcd?step=4 |
| Round integers to the nearest power of 10. | 17 | https://classroom.thenational.academy/lessons/applying-place-value-knowledge-to-problem-solving-71jket |
| Compare two numbers using $=, \neq, <, >, \leq, \geq$ | | https://classroom.thenational.academy/lessons/using-comparative-symbols-to-compare-numbers-6cupct |
| Order a list of integers. | | https://classroom.thenational.academy/lessons/ordering-and-comparing-5-digit-numbers-using-a-number-line-c4r62c |
| Find the range of a set of numbers. | 410 | See below |

Maths Oak Academy Work Half Term 2

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| Find the median of a set of numbers. | 409 | https://classroom.thenational.academy/lessons/median-mode-and-range-6cu66r |
| Understand place value for decimals. | 45 | https://classroom.thenational.academy/lessons/ordering-decimals-6gt66r |
| Position decimals on a number line. | 46 | https://corbettmaths.com/wp-content/uploads/2013/02/reading-scales-pdf.pdf |
| Compare and order any number up to one billion. | 14, 46 | https://classroom.thenational.academy/lessons/ordering-and-comparing-numbers-beyond-1000-cmr66c |
| Round a number to 2 significant figures. | 130 | https://classroom.thenational.academy/lessons/rounding-to-significant-figures-part-1-64v6cc |
| | | https://classroom.thenational.academy/lessons/rounding-to-significant-figures-part-2-69jp4t |
| Write 10, 100, 1000 etc. as powers of 10. | 121 | https://classroom.thenational.academy/lessons/powers-of-10-c9hp6c |
| Write positive integers in the form $A \times 10^n$ | 122, 123 | https://classroom.thenational.academy/lessons/convert-large-numbers-to-standard-form-6wv36c |
| Investigate negative powers of 10. | 122, 123 | https://classroom.thenational.academy/lessons/convert-small-numbers-to-standard-form-cmup8e |
| Write decimals in the form $A \times 10^n$ | 122, 123 | See above |

| 5- Fraction, Decimal and Percentage Equivalence | Hegarty | Oak Academy Link |
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| Represent tenths and hundredths as diagrams. | 58 | https://classroom.thenational.academy/lessons/percentages-on-a-number-line-cru6at |
| Represent tenths and hundredths on number lines. | | http://corbettmaths.com/2013/04/27/reading-scales/ |
| Interchange between fraction and decimal number lines. | 57 | https://classroom.thenational.academy/lessons/percentages-on-a-number-line-cru6at |
| Convert between fractions and decimals - tenths and hundredths. | 73, 74 | https://classroom.thenational.academy/lessons/recognising-decimal-tenths-part-1-ctgkcd |
| | | https://classroom.thenational.academy/lessons/recognising-decimal-tenths-part-2-64upac |
| | | https://classroom.thenational.academy/lessons/recognising-decimal-hundredths-part-1-c4v3ed |
| | | https://classroom.thenational.academy/lessons/recognising-decimal-hundredths-part-2-cmukcd |

Maths Oak Academy Work Half Term 2

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| Convert between fractions and decimals - fifths and quarters. | 73, 74 | https://classroom.thenational.academy/lessons/recognising-common-decimal-equivalents-6dgk6c |
| Convert between fractions and decimals - eighths and thousandths. | 73, 74 | See above |
| Understand the meaning of percentage using a number square. | 75, 81 | https://classroom.thenational.academy/lessons/converting-to-decimals-cmvp8d |
| Convert fluently between simple fractions, decimals and percentages. | 149 | https://classroom.thenational.academy/lessons/converting-from-fractions-to-percentages-c4v3jd |
| Use and interpret pie charts with clear fractional sectors. | | https://classroom.thenational.academy/lessons/interpret-pie-charts-6hj3er |

| 6 - Solving Problems with Addition and Subtraction | Hegarty | Oak Academy Link |
|---|------------|---|
| Properties of addition and subtraction. | 1, 2, 3, 7 | https://classroom.thenational.academy/lessons/choosing-appropriate-addition-strategies-6wwkad |
| | | https://classroom.thenational.academy/lessons/choosing-appropriate-subtraction-strategies-6nh3gc |
| Mental strategies for addition and subtraction. | | See above |
| Use written methods for addition of integers. | 18 | https://classroom.thenational.academy/lessons/adding-using-the-column-method-6wt64c |
| Use written methods for addition of decimals. | 47 | http://corbettmaths.com/2013/03/28/adding-decimals/ |
| Use written methods for subtraction of integers. | 19 | https://classroom.thenational.academy/lessons/subtracting-using-the-column-method-6xj32d |
| Use written methods for subtraction of decimals. | 47 | http://corbettmaths.com/2013/03/28/subtracting-decimals/ |
| Choosing the most appropriate method - mental, written or calculator. | | See above |
| Solve problems involving perimeter. | 548-550 | https://classroom.thenational.academy/lessons/perimeter-of-polygons-and-compound-shapes-65k3jt |
| Solve financial maths problems. | 757 | https://classroom.thenational.academy/lessons/to-find-the-total-cost-of-two-items-c8vkgr |
| | | https://classroom.thenational.academy/lessons/to-calculate-the-amount-of-change-needed-part-1-69j3ee |
| | | https://classroom.thenational.academy/lessons/to-calculate-the-amount-of-change-needed-part-2-64uk0e |

Maths Oak Academy Work Half Term 2

| 7 - Solving Problems with Multiplication and Division | Hegarty | Oak Academy Link |
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| Properties of multiplication and division. | 4, 5, 6, 8 | https://classroom.thenational.academy/lessons/multiplication-and-division-64r32e |
| Understand and use factors. | 27 | https://classroom.thenational.academy/lessons/multiples-and-factors-6gr32d |
| Understand and use multiples. | 33 | See above |
| Multiply and divide integers and decimals by powers of 10. | 15, 16 | https://classroom.thenational.academy/lessons/multiplying-and-dividing-by-10-100-1000-64t68e |
| Multiply by 0.1 and 0.01. | | http://corbettmaths.com/2013/05/19/division-by-powers-of-10/ |
| Convert metric units. | 691 | https://classroom.thenational.academy/lessons/solving-problems-using-measures-69j32t |
| Use written methods to multiply integers. | 144 | https://classroom.thenational.academy/lessons/long-multiplication-68u38t |
| Use written methods to multiply decimals. | 48 | http://corbettmaths.com/2013/02/15/multiplying-decimals-2/ |
| Use written methods to divide integers. | 22, 49 | https://classroom.thenational.academy/lessons/short-division-6gt64d |
| Use written methods to divide decimals. | 50 | http://corbettmaths.com/2012/08/21/dividing-decimals-by-whole-numbers/ |
| 8 - Fraction and Percentages of Amounts | Hegarty | Oak Academy Link |
| Find a fraction of a given amount. | 77 | https://classroom.thenational.academy/lessons/multiplying-non-unit-fractions-with-integers-70rker |
| Use a given fraction to find the whole amount or other fractions. | 79 | https://classroom.thenational.academy/lessons/equal-parts-of-a-whole-6gv38c |
| Find a percentage of an amount using mental methods. | 84, 85 | https://classroom.thenational.academy/lessons/percentages-of-amount-6nj68r |
| Find a percentage of a given amount using a calculator. | 86, 87 | https://classroom.thenational.academy/lessons/decimal-multipliers-64w3et |
| Solve problems with fractions greater than 1 and percentages greater than 100% | | https://classroom.thenational.academy/lessons/adding-mixed-numbers-6mu3jc |