Home-School Learning Collaboration – Mathematics

ERDINGTON ACADEMY

Topics in this cycle:	Taught: Spring 2	Year Group: 7

Key knowledge/concepts to be learnt ('Tell me about….')	Websites/blogs/YouTube links and further reading to deepen and consolidate learning
Solving problems with multiplication and division/Fractions and percentages of amounts: • Factors and multiples • Multiply/divide by powers of 10 (then 0.1 and 0.01) • Convert metric units • Multiply integers/decimals • Divide integers/decimals • BIDMAS • Solve area problems (rectangles/parallelograms) • Solve area problems (triangles/trapezia) • Find fraction/percentage of amounts	https://vimeo.com/461311096 https://vimeo.com/499607473 https://vimeo.com/499608079 https://vimeo.com/490690764 https://vimeo.com/490691239 https://vimeo.com/465421787
Operations and equations with directed numbers • Ordering of directed numbers • Add/subtract directed numbers • Multiply/divide directed numbers • Roots of positive numbers	https://vimeo.com/518994953 https://vimeo.com/510353138 https://vimeo.com/510353138 https://vimeo.com/516391970 https://vimeo.com/518995446
Addition and subtraction of fractions • Converting between fractions and mixed numbers • Add/subtract unit fraction (same denominator) • Add/subtract fractions from an integer • Add/subtract fractions (different denominator)	https://vimeo.com/519458046 https://vimeo.com/519458698 https://vimeo.com/523798712 https://vimeo.com/523798712

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Key Vocabulary and Definitions To Be Learnt		What Will The Assessment Look Like?
Equivalence	The same in value	
Inverse operation	Inverse of addition is subtraction; inverse of division is multiplication…	
Index	It tells you how many times a number (base) needs to be multiplied by itself	
Power	Another word for index	
Exponent	Another word for index	
Commutative	Means that numbers in calculation can be swapped around and the answer will be the same	**Family Learning Opportunities**
Numerator	Tells you how many parts we are interested in	
Denominator	Tells you how many equal parts a value was split into	Find out how to work on simple algebraic fractions: https://vimeo.com/525459423
Fraction	A part of a whole	Explore higher powers and roots: https://vimeo.com/519001290