Home-School Learning Collaboration – Mathematics

ERDINGTON ACADEMY

Topics in this cycle: Lower Core Upper	Taught: Summer 1	Year Group: Y7
Key knowledge/concepts to be learnt ('Tell me about….')		**Websites/blogs/YouTube links and further reading to deepen and consolidate learning**

Measuring and shapes

- Shapes
- Symmetry in shapes
- More symmetry
- Regular polygons
- Perimeter
- Area

https://youtu.be/AAY1bsazcgM

https://youtu.be/xCdxURXMdFY

Fractions, decimals and percentages

- Comparing fractions
- Equivalent fractions
- Calculating with fractions
- Adding and subtracting fractions
- Introducing percentages
- FINANCE: Finding percentages

https://youtu.be/9F731gSjtVk

Lines and angles

- Lines, angles and triangles
- Estimating, measuring and drawing angles
- Drawing triangles accurately
- STEM: Calculating angles
- Angles in a triangle
- Quadrilaterals

https://youtu.be/_erF7VM5-zl

Sequences and graphs

- Sequences
- Pattern sequences
- Coordinates
- Extending sequences
- Straight-line graphs
- Position-to-term rules

https://youtu.be/vV7C7bXm4Vl

Multiplicative reasoning

- STEM: Metric and imperial units
- Writing ratios
- Sharing in a given ratio
- Proportion
- Proportional reasoning

https://youtu.be/xA435umOQuw

- Using the unitary method

Perimeter, area and volume

- Triangles, parallelograms and trapeziums
- Perimeter and area of compound shapes
- Properties of 3D solids
- Surface area
- Volume
- STEM: Measures of area and volume

https://youtu.be/dCD02kuobnY

https://youtu.be/qJwecTgce6c

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Key Vocabulary and Definitions To Be Learnt		What Will The Assessent Look Like?
Scalene triangle	A triangle with all sides of different lengths	
Isosceles triangle	A triangle that has two sides of equal length	
Equilateral triangle	A triangle that has all sides of equal length	
Quadrilateral	A four-sided shape	**Family Learning Opportunities**
Parallelogram	A quadrilateral with two pairs of parallel lines	
Polygon	An enclosed shape with straight lines	
Perpendicular	Two lines are perpendicular when meet at right angle (90 degree)	
Parallel	Two lines are parallel when they are same distance apart	
Vertex	A corner, where two or more lines meet	
Direct proportion	When two or more amounts increase by the same rate	
Inverse proportion	When one amount increases, the other decreases by the same rate	
Net	A pattern that can be cut and folded into a 3D shape	
Surface area	The total area of the surface of a solid shape	