

LIAL TTEDNA 1. Number Operations 9 Dreparties and Desirable		Cturdente will no od wondod nach longe with
HALF TERM 1: Number Operations & Properties and Decimals		Students will read worded problems – with pronunciation corrected when necessary.
Number Operations & Properties		Integer
- use of correct mathematical symbols (<, >, \leq , \geq , =, \neq).		
- use of column addition and subtraction of integers.		$<,>,\leq,\geq,=,\neq$
- use of grid multiplication to multiply 2 large integers.		BIDMAS (and other synonyms)
- divide an integer by an integer using short division (bus stop		Inverse
method).		Factors and multiples (including HCF and LCM) Prime
- understand that operations have an inverse and can be		Placeholder
used to check answers.		Place value
- use simple direct proportion to find single amounts or a		Decimal places
multiple of an amount.		Significant figures
- recall, and use a calculator, to evaluate powers and roots.		Estimation
- extend the number line – recap ordering negative numbers.		Equivalent
- complete the four operations with negative numbers.		
- use of BIDMAS hierarchy of operations to complete		Students will complete a 'What a bad one looks
calculations (including negative numbers).		like' known as WABOLL; an incorrectly answered
- identify factors of a given number.		question. Students are required to identify the
- identify multiples of a given number.	-	misconceptions and provide a written
- understand HCF stands for highest common factor and can		explanation in their own words.
list factors of two numbers to find it.		
- reading and representing inequalities on a number line.	\bigcirc	
- understand LCM stands for lowest common multiple and	30	Emphasis will be on using the correct
can list multiples of two numbers to find it.	1 28	terminology and correctly reading decimals; 3.21
- understood what is meant by a prime number and can		is read as "three point two one" and <u>not</u> "three
express a number as a product of its prime factors.		point twenty one".
Decimals		Homework (Extended Do Now Topics)
- understand our number system is base 10 and the value of	0	
digits in a place value table.	Ő	1. Use of mathematical symbols
- understand the use of placeholders in decimal numbers.		2. Column addition nad subtraction 3.
I - ordering decimals and be able to compare two decimals		Grid multiplication
 ordering decimals and be able to compare two decimals using the correct mathematical symbol. 		Grid multiplication 4. Bus stop division
using the correct mathematical symbol.		
using the correct mathematical symbol. - use the column method to add and subtract decimals.		4. Bus stop division
using the correct mathematical symbol. - use the column method to add and subtract decimals. - use a place value table to multiply and divide numbers by		 Bus stop division Negative numbers
using the correct mathematical symbol. - use the column method to add and subtract decimals. - use a place value table to multiply and divide numbers by powers of 10.		4. Bus stop division5. Negative numbers6. Factors and multiples
using the correct mathematical symbol. - use the column method to add and subtract decimals. - use a place value table to multiply and divide numbers by powers of 10. - multiply two decimal numbers (first multiplying by powers		4. Bus stop division5. Negative numbers6. Factors and multiples
using the correct mathematical symbol. - use the column method to add and subtract decimals. - use a place value table to multiply and divide numbers by powers of 10. - multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid		4. Bus stop division5. Negative numbers6. Factors and multiples
using the correct mathematical symbol. - use the column method to add and subtract decimals. - use a place value table to multiply and divide numbers by powers of 10. - multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid method, then divide by the same power of 10).		4. Bus stop division5. Negative numbers6. Factors and multiples
using the correct mathematical symbol. - use the column method to add and subtract decimals. - use a place value table to multiply and divide numbers by powers of 10. - multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid		4. Bus stop division5. Negative numbers6. Factors and multiples
using the correct mathematical symbol. - use the column method to add and subtract decimals. - use a place value table to multiply and divide numbers by powers of 10. - multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid method, then divide by the same power of 10). - round a number to the nearest power of 10 using a place value table.		4. Bus stop division5. Negative numbers6. Factors and multiples
using the correct mathematical symbol. - use the column method to add and subtract decimals. - use a place value table to multiply and divide numbers by powers of 10. - multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid method, then divide by the same power of 10). - round a number to the nearest power of 10 using a place		4. Bus stop division5. Negative numbers6. Factors and multiples
 using the correct mathematical symbol. use the column method to add and subtract decimals. use a place value table to multiply and divide numbers by powers of 10. multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid method, then divide by the same power of 10). round a number to the nearest power of 10 using a place value table. round to a given number of decimal places using a place value table. 		4. Bus stop division5. Negative numbers6. Factors and multiples
 using the correct mathematical symbol. use the column method to add and subtract decimals. use a place value table to multiply and divide numbers by powers of 10. multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid method, then divide by the same power of 10). round a number to the nearest power of 10 using a place value table. round to a given number of decimal places using a place value table. understand what is meant by a significant figure and be able 		4. Bus stop division5. Negative numbers6. Factors and multiples
 using the correct mathematical symbol. use the column method to add and subtract decimals. use a place value table to multiply and divide numbers by powers of 10. multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid method, then divide by the same power of 10). round a number to the nearest power of 10 using a place value table. round to a given number of decimal places using a place value table. understand what is meant by a significant figure and be able to identify them. 		4. Bus stop division5. Negative numbers6. Factors and multiples
 using the correct mathematical symbol. use the column method to add and subtract decimals. use a place value table to multiply and divide numbers by powers of 10. multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid method, then divide by the same power of 10). round a number to the nearest power of 10 using a place value table. round to a given number of decimal places using a place value table. understand what is meant by a significant figure and be able 		4. Bus stop division5. Negative numbers6. Factors and multiples
 using the correct mathematical symbol. use the column method to add and subtract decimals. use a place value table to multiply and divide numbers by powers of 10. multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid method, then divide by the same power of 10). round a number to the nearest power of 10 using a place value table. round to a given number of decimal places using a place value table. understand what is meant by a significant figure and be able to identify them. round to a given number of significant figures and can use this to estimate the answer to a calculation. 		4. Bus stop division5. Negative numbers6. Factors and multiples
 using the correct mathematical symbol. use the column method to add and subtract decimals. use a place value table to multiply and divide numbers by powers of 10. multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid method, then divide by the same power of 10). round a number to the nearest power of 10 using a place value table. round to a given number of decimal places using a place value table. understand what is meant by a significant figure and be able to identify them. round to a given number of significant figures and can use 		4. Bus stop division5. Negative numbers6. Factors and multiples
 using the correct mathematical symbol. use the column method to add and subtract decimals. use a place value table to multiply and divide numbers by powers of 10. multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid method, then divide by the same power of 10). round a number to the nearest power of 10 using a place value table. round to a given number of decimal places using a place value table. understand what is meant by a significant figure and be able to identify them. round to a given number of significant figures and can use this to estimate the answer to a calculation. <i>adapt a question to form an equivalent calculation.</i> <i>identify methods for addition and subtraction of numbers that are not base 10 (eg the difference between two times).</i> 		4. Bus stop division5. Negative numbers6. Factors and multiples
 using the correct mathematical symbol. use the column method to add and subtract decimals. use a place value table to multiply and divide numbers by powers of 10. multiply two decimal numbers (first multiplying by powers of 10 to create an integer multiplication completed using grid method, then divide by the same power of 10). round a number to the nearest power of 10 using a place value table. round to a given number of decimal places using a place value table. understand what is meant by a significant figure and be able to identify them. round to a given number of significant figures and can use this to estimate the answer to a calculation. adapt a question to form an equivalent calculation of numbers 		4. Bus stop division5. Negative numbers6. Factors and multiples



HALF TERM 2: Fractions and Percentages		Ctudents will read wonded and blance with
Fractions		Students will read worded problems – with pronunciation corrected when necessary.
- understand the term equivalent fraction and be able to find		pronunciation concelled when necessary.
equivalent fractions (including simplifying fractions).		Fraction (proper, improper, mixed number)
- understand what mixed numbers and improper fractions		Numerator
are and be able to convert between the two.		Denominator
- use of equivalent fractions to order and compare (using		Equivalent
correct mathematical symbols).		Simplify Of
- multiply a fraction by an integer and calculate a fraction of		Percent/percentage
an amount.		Decimal multiplier
- use of equivalent fractions add and subtract fractions with		Increase/decrease
common and uncommon denominators.		Simple interest
- divide two fractions.		Simple depreciation
- understand that a percentage is a measure per every 100		Reverse (%)
and can be written as an equivalent fraction with its		Change (%) Compound interest/depreciation
denominator being 100 (including percentages greater than		
100%)		
- use of a place value table to find equivalent fractions for		Students will complete a 'What a bad one looks
decimals (including decimals greater than 1).		like' known as WABOLL; an incorrectly answered
- use of short division to find an equivalent decimal for a	-	question. Students are required to identify the
fraction (including improper and mixed numbers).		misconceptions and provide a written explanation in their own words.
- order and compare fractions, decimals and percentages		explanation in their own words.
using the correct mathematical symbols.		
- add, subtract, multiply and divide mixed numbers.	\bigcirc	Students will need to verbally explain key words
,	30	and concepts. e.g. 0.4 is not equivalent to 4%
	1 22	because
Percentages		
- use of division and multiplication to find a percentage of		Homework – (Extended Do Now Topics
- use of division and multiplication to find a percentage of amount without a calculator.	Q	Including HT1, topics to include a
 - use of division and multiplication to find a percentage of amount without a calculator. - use of equivalent decimals (multipliers) to find a percentage 	00	Including HT1, topics to include a variety from)
 - use of division and multiplication to find a percentage of amount without a calculator. - use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. 	00	Including HT1, topics to include a variety from) 1. Mixed numbers and improper
 - use of division and multiplication to find a percentage of amount without a calculator. - use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. - increase/decrease an amount by a given percentage. 	90	Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. 	00	Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real 	90	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. 	0	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. 	0	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. 	90	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including 	9	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including identifying a "best buy". 	9	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including identifying a "best buy". have an appreciation for the relationships of percentages 	90	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including identifying a "best buy". have an appreciation for the relationships of percentages of amounts. 	9	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including identifying a "best buy". have an appreciation for the relationships of percentages of amounts. understand the difference between simple interest and 	9	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including identifying a "best buy". have an appreciation for the relationships of percentages of amounts. 	9	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including identifying a "best buy". have an appreciation for the relationships of percentages of amounts. understand the difference between simple interest and 	9	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including identifying a "best buy". have an appreciation for the relationships of percentages of amounts. understand the difference between simple interest and 	9	 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including identifying a "best buy". have an appreciation for the relationships of percentages of amounts. understand the difference between simple interest and 		 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including identifying a "best buy". have an appreciation for the relationships of percentages of amounts. understand the difference between simple interest and 		 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including identifying a "best buy". have an appreciation for the relationships of percentages of amounts. understand the difference between simple interest and 		 Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP
 use of division and multiplication to find a percentage of amount without a calculator. use of equivalent decimals (multipliers) to find a percentage of an amount using a calculator. increase/decrease an amount by a given percentage. calculate an original amount using reverse percentages. calculate simple interest and see the applications in the real world. express one number as a percentage of another. use a calculator to find a percentage change. apply percentages knowledge to real life problems including identifying a "best buy". have an appreciation for the relationships of percentages of amounts. understand the difference between simple interest and 		Including HT1, topics to include a variety from) 1. Mixed numbers and improper fractions 2. Calculations with fractions 3. Understanding percentages 4. Equivalent FDP



HALF TERM 3: Probability and Ratio

Probability

understand the probability scale (worded and numerical 0-1) and be able to place events in the correct place on the scale.

- express the probability of an event occurring as a fraction.

- understand that the probability of an impossible event

occurring is 0 (and not a fraction with 0 as the numerator). - understand what is meant by exhaustive events.

- understand, and use, that the sum of the probabilities of exhaustive events is 1.
- calculate the probability of an event not occurring.
- list outcomes of events systematically to calculate a probability.
- draw a sample space diagram to calculate a probability of an event occurring.
- calculate the probability of two events combined.
- understand the difference between relative frequency and theoretical probability.
- calculate relative frequency.
- made judgements on fairness by comparing relative frequency and theoretical probability.

<u>Ratio</u>

- interpret and use map scales when written as a ratio.
- use a ratio to complete scale drawings.
- understand that a ratio compares parts against each other (and not against the whole like a fraction).
- use a ratio to compare one part against the whole (proportion).
- identify equivalent rations (including simplifying ratios).
- use of equivalent ratios to find a missing amount.
- use a bar model to represent ratios visually.
- dividing an amount by a given ratio using the bar model.
- simplifying ratios with three parts.
- compare parts of a ratio using the bar model.



Students will read worded problems – with pronunciation corrected when necessary.

Probability (impossible, even chance, certain) Event Occurring Exhaustive Sample space Bias/unbias **Relative frequency Theoretical probability** Ratio Proportion



Students will have the opportunity to interpret worded problems to calculate the probability of events. They will also need to practise presenting their systematic listing of outcomes in a clear, concise manner.

Students will complete a 'What a bad one looks like' known as WABOLL; an incorrectly answered question. Students are required to identify the misconceptions and provide a written explanation in their own words.



Students will need to verbally explain key words and concepts. e.g. the probability of winning the lottery is not even chance, or $\frac{1}{2}$ because you can either win it or not win it. Context of questions will need to be discussed and understood.

Reading ratios correctly 3 : 5 is read as "3 to 5" not "3 ratio 5" or "3 dot dot 5" or "3 colon 5".



Homework (Extended Do Now Topics Including Term 1, topics to include a variety from)

- 1. Probability scale
- 2. Calculating probabilities
- 3. Sample space diagrams
- 4. Ratio



Dette (constinuention for an annual de day of the day	
Ratio (continuation from previous half term)	
 compare ratios with fractions and percentages. 	
- combine two ratios into one equivalent ratio.	•
Measures	
- convert between metric units of measurement (length, mass	
and capacity).	
- convert between metric and imperial units of measurement.	
 understand units of length, area and volume. 	
 read scales of measure accurately (including in real life). 	
 convert between digital and analogue time. 	
 complete calculations involving time. 	
- understand what acute, right, obtuse and reflex angles are and	
can identify each type.	
- Describe a line segment (AB refers to the two end points of a	
line) and an angle (ABC refers to the angle at vertex B from	
points A and C) using letter notations.	
- know how to show a right angle on a diagram.	
 accurately measure angles using a protractor. accurately draw angles using a protractor. 	
- accurately draw angles using a protractor. - estimate lengths, weights and the size of an angle.	
- accurately construct triangles given two side lengths and an	
angle.	
- accurately construct triangles given two angles and a side	
length.	
- use a pair of compasses to construct a triangle given three	
side lengths.	
2 Dimensional Shapes	
- recall the names of 2D shapes.	
- identify the properties of 2D shapes and understand how to	
show this on a diagram (parallel, equal)	
- understand what is meant by the terms regular and irregular.	
 identify scalene, isosceles and equilateral triangles by 	
measuring side lengths and/or angles.	
- plot cartesian coordinates in all four quadrants.	
- identify lines of symmetry in 2D shapes.	
- understand what perimeter is and be able to calculate the	

- understand what perimeter is and be able to calculate the perimeter of 2D shapes.

- calculate the perimeter of 2D shapes when all lengths are given.

- calculate the perimeter of a shape when lengths are in different units.

- understand the applications of perimeter and be able to solve real life problems.

- calculate the area of squares and rectangles.

- investigate the relationship between the circumference (perimeter) of a circle and its radius.

- investigate the relationship between the area of a circle and its radius.

Students will read worded problems – with pronunciation corrected when necessary.

Aetric (length, area and volume) mperial Digital time nalogue time ngle and types of angles (acute, right, obtuse ind reflex angles) ine segment 'ertex Construct olvgon arallel Perpendicular egular regular ypes of triangles (scalene, isosceles and quilateral) Quadrilateral artesian coordinates uadrants ymmetry erimeter rea compound shape adius and diameter ircumference tudents will have the opportunity to create heir own worded problem(s) and written escriptions of 2D shapes using the correct nathematical language. Correct notation when describing a line segment r an angle and identifying parallel or lines of an qual length. Inits written (and said) correctly 15m² is read as "15 metres squared" Students will complete a 'What a bad one looks like' known as WABOLL; an incorrectly answered question. Students are required to identify the misconceptions and provide a written explanation in their own words. Students will be encouraged to use the correct terminology when describing diagrams and to

include the correct units, discussing the appropriateness of different units. Students will demonstrate how to correctly describe a shape using its mathematical properties for a peer to recognise it.



Homework – (Extended Do Now Topics Including HT3, topics to include a variety from)

- 1. Units
- 2. Properties of 2d shapes 3.
- Coordinates
- 4. Symmetry
- 5. Perimeter
- 6. Area



HALF TERM E. Angle Droporties		
HALF TERM 5: Angle Properties		Students will read worded problems – with
2 Dimensional Shapes (continued from previous half term)		pronunciation corrected when necessary.
- calculate the area of triangles and parallelograms.		
- calculate the area of compound shapes when all lengths are		Turn
given.		Interior
- calculate the perimeter of compound shapes (including finding		Exterior
missing lengths).		3 Figure bearing
- calculate the area of compound shapes (including finding		
missing lengths). - calculate the area of a trapezium.		Students will complete a 'What a bad one looks
		like' known as WABOLL; an incorrectly answered
Angle Properties		question. Students are required to identify the
- describe a turn or direction using compass points.		misconceptions and provide a written
- understand that an angle of 180° represents a straight line.		explanation in their own words. Students will
- calculate missing angles on a straight line.		able to give written justification of why they
- understand the terms interior and exterior angles.		have arrived at an answer using angle
- know that the sum of the interior angles of a triangle is		properties.
	6	
180°.	$(=)_{\frown}$	Students will need to verbally explain key words
- calculate missing angles in a triangle.	22	and concepts and will be encouraged to refer to
- use properties of 2D shapes to find missing angles in special	14 1	angles using letter notation.
triangles.		
 find an exterior angle using the property of angles on a 		
straight line.	\mathbf{O}	
- know that the sum of the angles around a point is 360°.	3	Homework – (Extended Do Now Topics
 calculate missing angles around a point. 		Including Term 2, topics to include a
 understand that 3 figure bearings are a direction, always 		variety from)
measured from North in a clockwise direction.		1. Finding the area of shapes
- calculate missing angles in quadrilaterals by recalling the		2. Understanding angle properties
properties of the shape.		3. Calculating missing angles
- calculate a missing exterior angle.		5. Calculating missing angles
- calculate an exterior angle of a regular polygon.		
- calculate angles in irregular quadrilaterals.		
- investigate angles in parallel lines.		



Processing Data		Students will read worded problems – with pronunciation corrected when necessary.
 - understand the terms discrete and continuous data and be able to give examples of both. - calculate measure of central tendency for a list of numbers (mode, median and mean). - comment and make judgements on the spread of a list of numbers (range and outliers). - describe and compare distributions using appropriate measures. 		Discrete Continuous Average (mode, median, mean) Spread/consistency (range and outliers) Distribution Frequency Vertical/horizontal Axis/axes Variables
 construct and interpret tally charts and frequency tables. identify the mode from a tally chart or frequency table. complete a data collection sheet. calculate the mean from a frequency table of discrete data. appropriately group continuous data to complete a tally chart or frequency table. 		Students will have the opportunity to complete a handling data project. Data will be collected, processed, presented and analysed. The data will be written up to explain the mathematics in context to the original data collected.
 Presenting Data construct and interpret bar charts (including identifying the mode). construct and interpret pictograms (including identifying the mode). construct and interpret vertical line graphs (including identifying the mode). construct and interpret pie charts. use scatter graphs to compare two variables to establish whether they have a relationship or not. 		Students will need to verbally explain key words and concepts and will be compiling their own data collection sheets for the handling data project. Working in small groups to find the mos efficient and effective way of doing so.
	00	Homework – (Extended Do Now Topics Including HT5, topics to include a variety from) 1. Calculating averages 2. Tally charts 3. Frequency tables 4. Bar charts 5. Pictograms 6. Line graphs