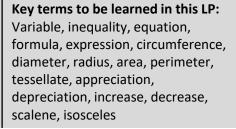
Learning Plan 1YEAR: 10SUBJECT: Maths (Intermediate)BLWYDDYN: 10PWNC: Mathemateg (Ganolradd)

Knowledge focus: equations and inequalities; area and perimeter; fractions and percentages of amounts, angles



Skills, knowledge and understanding to be developed in this Learning Plan:

- Forming, manipulating and solving linear equations and inequalities
- Calculating area and perimeter
- Application of fractions and percentages in contexts
- Calculating missing angles



Week/Wythnos 1 & 2 Learning Objectives:		Objective assessments:	Homework/Gwaith cartref:
 Understand how to form and solve a range of linear equations, including equations where the unknown appears twice Change the subject of the formula where the subject appears in one term Distinguish between, and group, equations, formulae and expressions Form and manipulate simple linear inequalities, including in "real-life" contexts Solve linear inequalities with whole number and fractional coefficients, including finding the least/greatest possible integer value 	Assessment: Basics of algebra, units of measure and linear equations/ine qualities	Be able to: change the subject of a formula when the subject appears in one term form, manipulate and solve linear equations and linear inequalities, including in real-life contexts	Set: Due: Homework/Gwaith cartref: Set: Due:
Week/Wythnos 3 & 4 Learning Objectives:		Objective assessments:	Homework/Gwaith cartref:
 Calculate the area of a square, rectangle, triangle and parallelogram using a formula Calculate the area and perimeter of composite shapes (including where there are unknown sides) 		Be able to: calculate the perimeter and area of a square,	Set: Due:
 Investigate ways to find the area of a trapezium Investigate pi Calculate the area and circumference of a circle Calculate the perimeter and area of semicircles Calculate unknown dimensions for 2-D shapes when given the area Solve real life practical problems involving perimeters, areas, floor/wall tiles and tessellation 		rectangle, triangle, parallelogram, trapezium, circle, semicircle and composite shapes solve problems in the context of tiling patterns and tessellation	Homework/Gwaith cartref: Set: Due:

Learning Plan 1 YEAR: 10 BLWYDDYN: 10

SUBJECT: Maths (Intermediate) PWNC: Mathemateg (Ganolradd)

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 Week/Wythnos 5 & 6 Learning Objectives: With or without a calculator: Express one number as a fraction or percentage of another Find a fraction of a quantity Find a percentage of a quantity Calculate fractional increase and fractional decrease within context Calculate percentage increase and percentage decrease within context Solve real life problems involving percentage and fraction calculations Calculate the original quantity given the result of a proportional change With a calculator: Find the percentage of an amount Use multipliers to calculate percentage increases and decreases Calculate repeated proportional changes including exponential growth, decay, appreciation and depreciation 	Objective assessments: Be able to: find a fraction or a percentage of a quantity express one number as a fraction or percentage of another calculate fractional and percentage changes, including repeated proportional changes find the original quantity given the result of a proportional change	Homework/Gwait h cartref: Set: Due: Homework/Gwait h cartref: Set: Due:
 Week/Wythnos 7 Learning Objectives: Use angle facts to determine angles at a point and angles on a straight line Use angle properties for scalene, right-angle, isosceles and equilateral triangles to calculate missing angles Use the fact that the exterior angle of a triangle is equal to the sum of the interior angles at the other two vertices Calculate missing angles at a vertex using the angle fact for vertically opposite angles 	Objective assessments: Be able to: find angles at a point, at a point on a straight line, and opposite angles at a vertex recall and apply angle properties of triangles to calculate missing angles	Homework/Gwait h cartref: Set: Due: