Learning Plan 2

YEAR: 11 SUBJECT: Maths (Foundation)
BLWYDDYN: 11 PWNC: Mathemateg (Sylfaen)

Knowledge focus: finance, equations, probability

Skills, knowledge and understanding to be developed in this Learning Plan:	**Key terms to be learned in this LP:**
• Understand and use concepts of personal and household finance (such as tax, bills, interest) • Set goals to support self-improvement • Solve linear equations using algebraic methods • Recall and apply knowledge of theoretical probability and probability diagrams to solve problems • Calculate and evaluate experimental probabilities • Understand, calculate and evaluate relative frequencies	Tax, VAT, gross pay, net pay, deduction, appreciation, depreciation, variable, solution, probability, relative frequency, bias

Week/Wythnos 1-2 Learning Objectives: finance	**Objective assessments:**	**Homework/Gwaith cartref:**
• Work with household budgets (incomings and outgoings) and bank statements • Solve problems relating to monthly and annual fuel, food, council tax and clothing bills etc. • Calculate VAT and other tax payments (e.g. income tax, car tax) • Read payslips and solve problems relating to wages and salaries • Compare two service providers and decide on the best one e.g. mobile phone contracts, buying a TV, travel, hotels and holidays, commission on exchanging currencies • Calculate household bills e.g. gas, electricity and water bills • Compare best buys using hire purchase • Calculate loan and mortgage repayments • Use graphs and calculations to consider profit and loss and setting up a business • Decide on the best saving, borrowing or investment product given a set of requirements (simple interest only) • Complete calculations involving appreciation (e.g. house prices and investments) and depreciation (e.g. car values, sales)	Be able to: Solve problems involving personal and household finance	Mathswatch Set: 3/11/25 Due: 10/11/25 Set: 10/11/25 Due: 17/11/25

Week/Wythnos 3 Learning Intentions: feedback and review of mock exams	**L.I. assessments:**	**Homework/Gwaith cartref:**
• Read and respond to feedback based on mock exams • Self-assess performance and identify areas for improvement • Take steps to begin making improvement in identified areas	Be able to: Set goals to support self-improvement and take steps towards fulfilling these.	Mathswatch Set: 17/11/25 Due: 24/11/25

Week/Wythnos 4-5 Learning Objectives: solving equations	**Objective assessments:**	**Homework/Gwaith cartref:**
• Build equations where the unknown appears only once • Build equations where the unknown appears twice • Solve equations where the unknown appears only once • Solve equations where the unknown appears twice • Build and solve equations to find the solution to real life problems • Build and solve equations in purely mathematical contexts	Be able to: Solve linear equations algebraically	Mathswatch Set: 24/11/25 Due: 1/12/25 Set: 1/12/25 Due: 8/12/25
Week/Wythnos 6 Learning Objectives: theoretical probability	**Objective assessments:**	**Homework/Gwaith cartref:**
• Understand the notions of uncertainty and risk and use the language of probability to place events on a probability scale written in words • Place probabilities stated as fractions, percentages or decimals on a probability scale from 0 to 1 • Calculate theoretical probabilities based on equally like outcomes • Calculate theoretical probabilities using the fact that the probability of an event not occurring is one minus the probability that it occurs. • State all the outcomes from two events using a list or table (sample space) • Calculate simple probabilities of two events from Venn diagrams and other diagrammatical representations e.g. bar charts	Be able to: Apply knowledge of theoretical probability and probability diagrams to solve problems	Mathswatch Set: 8/12/25 Due: 15/12/25
Week/Wythnos 7 Learning Objectives: relative frequency	**Objective assessments:**	**Homework/Gwaith cartref:**
• Conduct experiments and surveys to compare outcomes and identify bias. • Write estimates of experimental probability/relative frequencies (in decimals) and know that you need a large number of trials (100+) to get a good estimate • Compare estimated probabilities/relative frequencies from experimental evidence with theoretical probabilities	Be able to: Calculate and evaluate experimental probabilities and relative frequencies	Mathswatch Set: 15/12/25 Due: 6/1/26