

Learning Plan 2
SUBJECT: Maths and Numeracy
Set: Year 11 Foundation tier



Ysgol Uwchradd
Prestatyn
High School

If you are having trouble completing your MathsWatch homework, speak to your maths teacher as soon as possible. You can do this either in your lesson or through Teams.

Knowledge Focus
Number: Real life finances.
Algebra: Solving equations.
Statistics: Scatter diagrams.

Skills, Knowledge and Understanding to be developed:

- Real life finance skills.
- Use prior knowledge of decimals and percentages as necessary.
- Use a calculator as necessary.
- Draw and use scatter diagrams.
- Understand correlation.
- Write and solve equations using the balance method.

Key Terms to be learned:

Number
 Tax, standing charge, debit, credit, interest, value.
Algebra
 Expression, equation, solve, unknown.
Statistics
 Scatter diagram, axes, scale, line of best fit, correlation, positive, negative.

<p>Week 1 Learning Objectives: <u>Numeracy and Mathematics</u></p> <ul style="list-style-type: none"> • 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. • 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 discounts for prompt or direct debit monthly payments. • Calculate VAT and other tax payments (e.g. income tax, car tax). • Read payslips and solve problems relating to wages and salaries. <p>➤ Mathswatch clips 18, 44, 77.</p>		<p>Objective assessments:</p> <p>Completion of exam style questions on real life money problems.</p>	<p>Homework:</p> <p>Suitable Mathswatch questions set by teacher on real life money problems.</p>
<p>Weeks 2, 3 and 4 Learning Objectives:</p> <ul style="list-style-type: none"> • Revision of course to date (both Mathematics and Numeracy). • Completion of mock examinations. • Bespoke feedback from mocks. • Topic improvement tasks. 	 <div style="background-color: #FF69B4; padding: 5px; display: inline-block;">Mock examinations and feedback.</div>	<p>Objective assessments:</p> <p>Completion of GCSE Mathematics unit 1 paper.</p> <p>Completion of GCSE Numeracy unit 2 paper.</p>	<p>Homework:</p> <p>Suitable Mathswatch questions set by teacher.</p>
<p>Week 5 Learning Objectives: <u>Numeracy and Mathematics</u></p> <ul style="list-style-type: none"> • 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). <p>➤ Mathswatch clip 74.</p>		<p>Objective assessments:</p> <p>Completion of exam style questions on real life money problems.</p>	<p>Homework:</p> <p>Suitable Mathswatch questions set by teacher on real life money problems.</p>

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<p>Week 6 Learning Objectives:</p> <p><u>Numeracy and Mathematics</u></p> <ul style="list-style-type: none"> • Read, interpret and draw conclusions from scatter diagrams for paired variables recognising that correlation does not imply causality and know the types of correlation. • Construct scatter diagrams and draw a line of best fit by eye. • Find patterns and exceptions on scatter diagrams. • Identify mistakes on graphs, charts and diagrams and critique those that are used by the media in a misleading way. <p>➤ Mathswatch clip 119.</p>		<p>Objective assessments:</p> <p>Completion of exam style questions on scatter diagrams.</p>	<p>Homework:</p> <p>Suitable Mathswatch questions set by teacher on scatter diagrams.</p>
<p>Week 7 Learning Objectives:</p> <p><u>Numeracy and Mathematics</u></p> <ul style="list-style-type: none"> • 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. <p><u>Additional Content for Mathematics only</u></p> <ul style="list-style-type: none"> • Build and solve equations in purely mathematical contexts. <p>➤ Mathswatch clips 24, 85, 139a.</p>		<p>Objective assessments:</p> <p>Completion of exam style questions on equations.</p>	<p>Homework:</p> <p>Suitable Mathswatch questions set by teacher on equations.</p>