

Learning Plan 1

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

Knowledge focus: averages and spread, time and travel, real-life graphs and speed



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

- Calculate and solve problems involving averages and ungrouped, discrete data
- Calculate and solve problems involving the range
- Solve problems involving time and travel, including exchange rates
- Draw and interpret real-life graphs, such as conversion graphs and travel graphs
- Calculate and work with speed in real-life contexts

Key terms to be learned in this LP:

Mean, median, mode, range, spread, central tendency, average, conversion, exchange rate, compound measure, rate of change

Week/Wythnos 1-2 Learning Objectives: averages and spread

- Calculate the mode for ungrouped discrete data and the modal category for qualitative data
- Calculate the median for ungrouped discrete data (for an odd and even set of values)
- Calculate the mean and range for ungrouped discrete data (including where data is represented in a graph or chart)
- Calculate the mean and range for ungrouped discrete data represented in a frequency table
- Compare two distributions using a measure of central tendency and range in the context of real life practical situations
- Use measures of central tendency in a purely mathematical context
- Solve problems involving reverse averages

Objective assessments:

Be able to:

Solve problems involving averages and spread

Complete GCSE style in-class assessment

Homework/Gwaith cartref:

Mathswatch
Set: 12/9/25
Due: 19/9/25

Week/Wythnos 3-4 Learning Objectives: time and travel

- Know how different units for time relate to each other (days, hours, minutes and seconds) and be able to work out how many minutes/hours are between two times
- Convert between times written in the 12 and 24 hour clock
- Convert between units for time e.g. seconds to minutes and seconds, minutes to hours and minutes, hours to days and hours and vice versa in order to complete problems involving time
- Read and interpret two way tables, calendars, time sheets, timetables and distance charts to answer problems
- Use the 'hours, minutes, seconds' button on a scientific calculator to convert times and use a stop watch to work with lap times
- Read and interpret travel timetables to answer real life problems e.g. holiday bookings and time zones
- Obtain exchange rates from tables, charts and graphs and convert between different units of currency to solve

Objective assessments:

Be able to:

Solve problems about time and travel in numeracy/"real-life" contexts

Homework/Gwaith cartref:

Mathswatch
Set: 19/9/25
Due: 26/9/25

Homework/Gwaith cartref:

Mathswatch
Set: 26/9/25
Due: 3/10/25

numerical problems (e.g. best buys – of a product home and abroad)

- Construct and interpret conversion graphs e.g. for exchange rates, temperatures and distances
- Answer questions set in purely mathematical contexts relating to time, timetables and travel

Week/Wythnos 5-6 Learning Objectives: real-life graphs & speed

- Draw, interpret and ‘tell the story’ of graphs representing real life situations e.g. profit, costs/prices/charges for a service,
- Graphs showing change over time e.g. temperatures, depth of water, monetary values e.g. link to depreciation, unemployment etc.
- Plot and describe distance-time graphs/travel graphs
- Interpret distance-time graphs
- Read and interpret graphs and charts (distance/mileage charts and distance-time graphs) to calculate speed
- Calculate speed using correct units, to solve problems



Objective assessments:

- Be able to:
- Solve GCSE style problems in “real-life”/numeracy contexts, about speed, distance and time
 - Construct/draw and interpret real-life graphs

Homework/Gwaith cartref:

Mathswatch
Set: 3/10/25
Due: 10/10/25

Homework/Gwaith cartref:

Mathswatch (revision)
Set: 10/10/25
Due: 17/10/25

Week/Wythnos 7-8 Learning Objectives: mock exams

- Revision, consolidation and assessment



Objective assessments:

- Be able to:
- Complete mock examinations

Homework/Gwaith cartref:

Mathswatch (revision)
Set: 17/10/25
Due: 24/10/25

Homework/Gwaith cartref:

Mathswatch (revision)
Set: 24/10/25
Due: 7/11/25