YSGOL RHOSNESNI
HIGH SCHOOL

# Year 9 Revision List for January 2026 Exams.

## Year 9 Maths Exam Revision Preparation.

Students should use the list of topics below to revise using the videos and questions on 'Mathswatch'. Staff will show students how to do this. Also, students could make a poster of the key points to help remember them.

- Adding and subtracting whole numbers and decimals and working backwards to find a missing number when given the answer
- Multiplication and division of whole numbers and decimals
- Converting between and ordering fractions, decimals and percentages.
- Simplifying fractions
- Adding and subtracting fractions
- Finding a fraction of an amount
- Order of operations (BIDMAS)
- Indices (powers)
- Square and cube roots
- Reciprocals & Ratio
- Percentages of an amount
- Rounding to a given number of decimal places and significant figures
- Time durations of a journey

## Year 9 Welsh Exam Revision Preparation.

Students should revise the following areas from the three revision mats on the topic of 'Gwyliau' which have been uploaded to their Cymraeg Google Classroom:

- Mat 1: Key patterns and vocabulary on arranging a holiday in the travel agency.
- Mat 2: The concise past tense forms of all 4 Irregular Verbs.
- Mat 2: The concise past tense Regular Verb endings and rules.
- Mat 2: A range of present tense verbs which may be changed into the past tense.
- Mat 3: It was (male and female version) and a range of adjectives.
- Mat 3 (box 4): Connectives and vocabulary associated with time, e.g., firstly, then, today.
- Mat 3: Vocabulary and phrases to write a three-day holiday diary.

# Year 9 Science Exam Revision Preparation.

| Topic | Useful links |
|---|---|
| **Biology**<br>**Unit 1.1 Cells and movement across membranes**<br>• Cells (animal and plant cells) including structure and function of cell parts<br>• Microscopes including how to prepare a slide and calculating magnification<br>• Specialised cells and levels of organisation<br>• Diffusion & Osmosis | **Blended learning link**<br>Cells and movement across membranes https://d3kp6tphcrvm0s.cloudfront.net/el21-22_1-8/0/4<br>**Tanio links**<br>Cells and the microscope https://www.tanio.cymru/html/bioleg/v2/en/1.1.1/index.html<br>Diffusion, osmosis and active transport https://www.tanio.cymru/html/bioleg/v2/en/1.1.2/index.html<br>**BBC bitesize WJEC**<br>Cells and movement across membranes<br>https://www.bbc.co.uk/bitesize/guides/zsgfv4j/revision/1 |
| **Chemistry**<br>**Unit 1.1 The nature of substances and chemical reactions**<br>• Elements<br>• Compounds<br>• Chemical symbols and formulae<br>• Representing molecules with diagrams<br>• Mixtures<br>• Separating mixtures<br>• % composition of compounds<br>• Balancing equations | **Blended learning link**<br>The Nature of substance and chemical reactions https://dzwti2kfl5pz5.cloudfront.net/el21-22_2-2<br><br>**Tanio links**<br>Elements and compounds https://www.tanio.cymru/html/cemeg/v2/en/2.1.1/index.html<br>Separating mixtures https://www.tanio.cymru/html/cemeg/v2/en/2.1.3/index.html<br>Chemical calculations https://www.tanio.cymru/html/cemeg/v2/en/2.1.4/index.html<br><br>**BBC bitesize WJEC**<br>The nature of substances and chemical reactions https://www.bbc.co.uk/bitesize/topics/zf347nb |
| **Physics**<br>**Unit 1.1 Waves**<br>▪ Longitudinal and transverse waves<br>▪ Features of waves<br>▪ Graphical analysis of waves<br>▪ Waves calculation using equation and able to re-arrange equation:<br>• $period = \frac{1}{frequency}$<br>• wave speed = frequency × wavelength<br>$speed = \frac{distance}{time}$ | **Blended learning link**<br>Features of waves https://d3kp6tphcrvm0s.cloudfront.net/el21-22_3-10/0/0<br>**Tanio link**<br>Waves https://www.tanio.cymru/html/ffiseg/en/3.5.1/index.html<br><br>**BBC bitesize WJEC**<br>Features of waves- types of wave https://www.bbc.co.uk/bitesize/guides/zc62tv4/revision/1<br>Features of waves – describing waves https://www.bbc.co.uk/bitesize/guides/zc62tv4/revision/2<br>Features of waves – calculating wave speed https://www.bbc.co.uk/bitesize/guides/zc62tv4/revision/5 |