

Year 10 Examination Topics - November 3-7 2025

Science

There are three sections to the examination:

A graphing question will be included. Bring a pen, pencil, ruler and calculator.

Content students will be tested on is listed in the learning outcomes at the beginning of every unit.

Unit 4: Electric Cars (Electricity)

1. 25 Multiple choice questions (25 marks)
2. Two written response questions (15 marks) – literacy, public science issue or investigative approach-based questions.

Unit 5: Climate Change (Carbon Fuels and the Environment)

1. 25 Multiple choice questions (25 marks)
2. Two written response questions (15 marks) – literacy, public science issue or investigative approach-based questions.

Unit 6: Dog Breeding (Genetics)

1. 25 Multiple choice questions (25 marks)
2. Two written response questions (15 marks) – literacy, public science issue or investigative approach-based questions.

Examination Total: 120 Marks

English

There are three sections to the examination:

Section 1 – Essay - 40%

Students will write an introduction, two body paragraphs using PEEL structure, and a conclusion paragraph in response to a text they have studied in class during either Term 3 or Term 4. They must not write on the same text from the mid-year examination.

Section 2 – Unfamiliar Text - 40%

Students will read two unfamiliar texts and answer comprehension questions based on that text.

Section 3 - Punctuation and Grammar – 20%

Students will be expected to correct, identify, and write a range of punctuation and grammar questions.

Mathematics

The Mathematics Department runs tutorials at lunchtimes on Tuesdays and Thursdays. Students are encouraged to attend these if they want to ask questions arising from revision of old examination papers or homework sheets.

End of topic tests, weekly homework sheets and past exam papers are all useful for revision.

Examination papers are available on Stratus. Students will need to login to gain access.

Please Note: Recent past examinations do not cover all the topics listed below. Students are advised to revise sections from past examinations that match the list below.

Students will be required to bring a **calculator, a ruler and pens**. **Students will be at a huge disadvantage without a calculator.**

The examination is out of 120 marks, or one mark per minute.

Topics to be assessed:

Short Answer (20 Marks)

- A mixture of number, algebra, statistics and measurement question which do not require much in the way of working.

Number (20 marks)

- Percentage of a quantity, increase, decrease, inverse percent, GST, ratios and rates, fractions, rounding numbers, estimating, integers. Applying these skills to word problems.

Algebra (20 marks)

- Simplifying, solving, substitution, rearranging, expanding and factorising, writing expressions for word problems, forming equations to solve problems.

Probability (13 Marks)

- Calculating probability, two-way tables, & probability trees.

Measurement (10 Marks)

- Calculating perimeter, area and volume (formula will be provided), calculating missing sides given a volume.

Graphs (14 Marks)

- Complete patterns, number sequences, tables and graphs. Draw straight line graphs given an equation in $y=mx+c$ form and in $ax+by=d$ form. Write the equation of a straight line graph.

Angles (10 Marks)

- Angles (Calculating size of angles and giving geometric reasons (basic angle rules, parallel lines, triangles, quadrilaterals and polygons).

Right Angled Triangles (13 Marks)

- Use Pythagoras and Trigonometry to find missing angles and side lengths. Use Pythagoras and Trigonometry to solve word problems.

Social Studies

There are four sections in this examination. This examination is worth 90% of the end-of-year report grade.

The sections are:

1. Resource Interpretation (30%)
2. Written Essay (25%)
3. Data Skills (25%)
4. Current Events (10%)
5. Common Assessment (10%) * this has already been completed in class

Section 1: Resource Interpretation (30%)

Students will be assessed on their ability to make sense of written texts and interpret sources, including those with different perspectives and views, and provide evidence-based conclusions.

This will involve a case study on **Old Boys of PNBHS in World War II**. Students will be provided with resources, from which they are to demonstrate their reading comprehension, ability to explain perspectives, synthesise ideas and draw conclusions that are supported with evidence. These are skills students have been developing in class through the topic of **Kiwis in Conflict**.

Section 2: Written Essay (25%)

Students will be assessed on their ability to demonstrate an understanding of cause and effect, and/or significance, through a written essay using PEEL structure. This means they will be writing meaningful text for the purpose of formal writing.

The questions will be drawn from the topic of **Kiwis in Conflict** which they studied in class. Students will be provided with two generic questions to choose from. They must write an introduction, two paragraphs, and a conclusion.

Questions will be drawn from:

- **Cause and impact of a specific battle or event NZ participated in during a time of conflict or war.**
- **Significance (then and now) of an event or battle that New Zealand participated in during a time of conflict or war.**

Section 3: Data Skills (25%)

Students will be assessed on their ability to communicate information using social science practises. Specifically, this means their ability to:

- create bar graphs using provided data and provided circles
- read and interpret data from graphs and tables (*e.g. recognise basic patterns, relationships and/or trends*)
- provide evidence-based conclusions

Section Four: Current Events (10%)

This section will involve students answering multichoice-style questions, cartoon interpretation, and short-answer questions. The purpose is to assess student understanding of important current events. The current events will be from mid-2025 to now.