## Year 10 Examinations Monday, 9 June to Friday, 13 June 2025

Please find below information regarding the topics to be assessed during the upcoming examinations in the four 'core' subjects for junior students. Further assessment information, and copies of previous examination papers for some subjects, can be found on subject Stratus pages - http://stratus.pnbhs.school.nz/, your son will need to use his school username and password to log in.

# **Social Studies**

There are 4 sections in this examination. This examination is worth 90% of the mid-year report grade. The sections are:

- 1. Resource Interpretation (25%)
- 2. Paragraph Writing (25%)
- 3. Data Skills (30%)
- 4. Current Events (10%)
- 5. Common Assessment (Fred Hollows) already completed in class (10%)

## Section 1: Resource Interpretation (25%)

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 (**'Do' 6**).

The topic will be either:

- 1975 Land March
- Dawn Raids

## Section 2: Paragraph Writing (25%)

Students will be assessed on their ability to demonstrate an understanding of significance through the creation of two PEEL paragraphs. This means they will be writing meaningful text for the purpose of formal writing (Literacy Connection).

Students will have options to answer a question based on the topics of the **Dawn Raids or 1975 Land March**, both of which they have studied in class. Students will be provided with generic questions to choose from in the examination. The questions will be based on 1) cause and significance, or 2) significance then vs now, 3) the social action and the significance of this action. There is no expectation to write an introduction or conclusion.

In the end-of-year examination, this will transition to students being expected to write a full essay with an introduction, body paragraphs, and conclusion.

## Section 3: Data Skills (30%)

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

- Identify key features of a bar graph AND draw a bar graph (**CI 6**)
- Read and interpret data from graphs and tables (*e.g. recognise basic patterns, relationships and/or trends*) (**'Do' 13**)
- Provide evidence-based conclusions (**PI 3**)

## 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 early 2025 to now.

## **Science**

There are three sections to the Year 10 Mid-Year Examination:

#### **Examination Total: 120 Marks**

Materials needed: 2 blue or black pens, pencil, ruler, calculator, eraser, and a sharpener.

Stratus Science Year 10 course page has past examinations, vocabulary lists, a detailed breakdown of the units, and plenty of resources for revision

## Unit 1: Should we Lower the Speed Limit? (Forces and Motion)

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

#### Unit 2: Antibiotic Resistance (Microbiology)

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

## **Unit 3: Ocean Acidification (Atoms and Chemical Reactions)**

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

## <u>English</u>

There are three sections to the exam:

### **Response to Text - Written Text**

- Students are expected to write on a written text e.g. poetry, short story, novel or biography that they have studied in class this year.
- Responses require personal reaction to the text/ or an aspect of the text (character, theme etc) and a paragraph based on an idea found in the text that was interesting.
- Responses are marked on the ideas presented by students, supporting examples and their relevance to the response, and the depth of understanding demonstrated in a student's explanations.
- Students should expect to spend around 45 minutes planning and writing their essay.
- The response represents 30% of the overall exam mark.

## <u>Unfamiliar Text</u>

- Students will read pieces of short fiction and poetry texts. They will answer a variety of short answer questions that focus on:
  - o surface comprehension and inference skills
  - parts of speech and sentence types
  - o identifying and explaining the effects of language features
  - demonstrating understanding of ideas
- Students should expect to spend approximately 40 45 minutes on this section.
- This section represents 40% of the overall exam mark.

## Punctuation and Grammar

- This section assesses students' knowledge of basic punctuation and grammar including:
  - full stops, commas, apostrophes
  - capital letter use
  - complete and incomplete sentences, dependent and independent clauses
  - homophones, parts of speech
  - subject-verb agreement
- Students should expect to spend 15-20 minutes in this section.
- This section represents 30 % of the overall exam mark.

## **Mathematics**

#### The examination is out of 120 marks.

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

Examination papers are available on Stratus. Students will need to login to gain access. Please note: recent mid-year examinations have not examinations to revise probability.

- Students are expected to have a ruler, calculator and pens. Your son will be at a huge disadvantage without a calculator.
- The examination will look slightly different to previous years, but students can use previous examinations to prepare if they focus on the content outlined below. Note: there is no formal Algebra in the mid-year examination. Your son's Mathematics teacher will be able to share additional study material on MS Teams.

### <u>Measurement</u>

Short Answer (20 marks)

• This section includes knowledge, (not application questions) relating to measurement.

### Measurement Applications (20 marks)

• This section includes word problems that require students to apply measurement skills to real life contexts.

#### Measurement skills include:

- Identifying appropriate units of measurement, making reasonable estimations and measurement unit conversions
- Reading scales
- Time (12 and 24 hour) and calculating elapsed time
- Reading timetables
- Calculating perimeter of shapes, including circumference of circles
- Calculating area of squares, rectangles, triangles, trapeziums, parallelograms, and circles. (Formula will be provided)
- Calculating area and perimeter of composite shapes
- Calculating volume of prisms and cylinders (formula will be provided)

#### <u>Number</u>

#### Short Answer Number Skills (25 marks)

• This section includes knowledge, (not application questions) relating to Number.

#### Number Applications (22 marks)

• This section includes word problems that require students to apply skills to real life contexts.

#### Number skills include:

- Addition, subtraction, multiplication, and division equations involving whole number and decimal numbers
- Order of operations (GEMA)
- Fractions simplifying, mixed/improper, ordering of, converting to decimals, adding/subtracting/multiplying and dividing).
- Percentages converting %, fractions and decimals, % increases and decreases, % of an amount, % difference, finding the original amount, GST, rates and ratios.

## Probability Skills (33 Marks)

To answer the probability questions in the mid-year examination, you'll need a variety of probability skills and concepts. Here are the key skills required:

## **Basic Probability Concepts**

- Understanding Probability: Knowing that probability is the measure of the likelihood of an event occurring, expressed as a fraction, decimal, or percentage.
- Calculating Probability: Using the formula P(E) = Number of favourable outcomes / Total number of possible outcomes.

## **Specific Probability Skills**

- Simple Probability: Calculating the probability of a single event occurring, such as selecting a specific letter or marble.
- Complementary Probability: Finding the probability of an event not occurring, which is 1 P(event).
- Theoretical Probability: Determining the probability based on known possible outcomes, such as rolling dice or flipping coins.
- Experimental Probability: Calculating probability based on actual experiments or trials.
- Conditional Probability: Calculating the probability of an event given that another event has occurred.
- Probability Trees: Using probability trees to visualize and calculate probabilities of combined events.
- Comparing Experimental and Theoretical Probability: Evaluating the accuracy of experimental results against theoretical expectations.
- Joint Probability: Calculating the probability of two events occurring together.
- Expected Value: Using probability to predict the expected number of occurrences.