



## Peponi School

### Academic Scholarship

All candidates will sit the following compulsory papers

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|-----------------|------------|
| • English I     | One Hour   |
| • Mathematics I | One Hour   |
| • General Paper | One Hour   |
| • Interview     | 15 Minutes |

Academic and All-Rounder Scholarship applicants will also sit:

- |                  |          |
|------------------|----------|
| • English II     | One Hour |
| • Mathematics II | One Hour |

In addition, candidates choose four from the subject examinations listed below. One subject must be chosen from Group A, two from Group B and one other subject from any group.

Group A <sup>1</sup>	Group B	Group C
One Hour	45 Minutes	45 Minutes
French	Physics	Geography
Spanish	Chemistry	History
German	Biology	
	Mathematics III	

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<sup>1</sup>The choice of language must be a taught language and not a candidate's mother tongue. If a candidate has not been taught another language, then they may offer another paper from Group B or Group C. If a candidate has studied a language that is not offered as an examined subject (such as Italian or Swahili) then the candidate's school should contact the Headmaster.

## **ENGLISH**

There are two papers for English

### **Paper I**

This is the basic literacy paper and will test a candidate's skills with simple language. It will include an advanced vocabulary section and a précis and grammar section.

### **Paper II – Comprehension and Essay**

This paper will have two sections; the first will be a passage of comprehension taken from a classic novel and the candidate will have to illustrate considerable observational prowess, perspicacity and perception. The second (essay) section will ask for opinions on a topical, contemporary issue. It will not be a creative writing exercise.

## MATHEMATICS

### Paper I – Basic mathematical skills<sup>2</sup>

Candidates will be expected to –

- Order and approximate decimals when solving number problems and equations. Evaluate one number as a fraction or percentage of another.
- Understand and use the equivalences between fractions, decimals and percentages, and calculate ratios.
- Add and subtract fractions.
- Be able to find the general rule of a linear sequence.
- Solve linear equations.
- Plot straight line graphs.
- Recognise 2D representations of 3D shapes.
- Classify quadrilaterals by their properties.
- Calculate missing angles in polygons and in parallel lines.
- Calculate the area and circumference of a circle.
- Find the volume of a cuboid.
- Enlarge shapes given a whole number scale factor.
- Collect and record continuous data. Construct pie charts.
- Interpret scatter diagrams.
- Identify all outcomes using diagrams and tables.

### Paper II<sup>3</sup>

Candidates will be expected to –

- Round to one significant figure and multiply and divide mentally.
- Solve numerical problems involving multiplication and division with numbers of any size. Understand and use proportional changes.
- Find the general rule of a quadratic sequence.
- Use algebraic and graphical methods to solve simultaneous equations.
- Solve simple inequalities.
- Use Pythagoras' Theorem. Enlarge shapes by a fractional scale factor.
- Determine the locus of an object.
- Appreciate the imprecision of measurement.
- Understand and use compound measures.
- Calculate averages from grouped data.
- Draw a line of best fit on a scatter diagram.
- Understand relative frequency as an estimate of probability.

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<sup>2</sup>Knowledge of National Curriculum levels 3-4 is expected and will also be tested.

<sup>3</sup>Knowledge of National Curriculum levels 4-6 is expected and will also be tested.

### Paper III<sup>4</sup>

In this paper candidates will be required to tackle problems in unfamiliar contexts by selecting from a range of techniques such as algebra and graphs. Candidates will, in particular, be expected to –

- Solve problems involving calculating with powers, roots and numbers written in standard form
- Use fractions or percentages to solve problems involving repeated proportional changes
- Evaluate algebraic formulae, substituting fractions, decimals and negative numbers.
- Manipulate algebraic formulae, equations and expressions.
- Solve inequalities in two variables.
- Sketch and interpret graphs of linear, quadratic, cubic and reciprocal functions.
- Understand and use congruence and similarity.
- Use sine, cosine and tangent in right-angled triangles.
- Distinguish between formulae for perimeter, area and volume.
- Interpret and construct cumulative frequency diagrams.
- Understand how to calculate the probability of a compound event and use this in solving problems.

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<sup>4</sup>Knowledge of National Curriculum levels 4-7 is expected and will also be tested.

## **GENERAL PAPER AND INTERVIEW**

This section of the scholarship is very important as it is designed specifically to identify those candidates who can evaluate in a scholarly way. Candidates will be expected to make advanced independent observations.

All candidates will be sent a folder that will contain a variety of information from a number of sources – this could include newspaper articles, prose from novels, books and magazines, photographs, maps, historical documents, mathematical and scientific data. They should review the material in detail and prepare notes that can be brought into the examination.

The candidates will sit a written examination. The purpose of this testing is to discover their understanding of the material. We will be looking at the candidates' ability to evaluate and interpret the presented material. It is likely that they will be asked to think creatively on any aspect of the source.

The interview will provide an opportunity for pupils to discuss their findings and ideas. It is essential that candidates do not seek help or support from parents or teachers at their current school. The interview is designed to test the originality of the candidates' ideas and not any taught material. Two members of the academic teaching staff and possibly the Headmaster will conduct interviews.