EXAM PAPER

Science Year 10 — Practice Exam 1

PREVIEW
This file has the first 12 of the 24 questions in this paper. The rest is locked: it comes with a PrepNest plan, or with the paper itself for VCE.

Total time: 35 minutes

SECTIONS IN THIS PAPER

- Science — 35 min

INSTRUCTIONS

Answer every question you can. Write your working in the space provided for long-answer questions. Marking guidance and full explanations are provided in the separate answer key.

YEAR 10 SCIENCE

Science

35 minutes

1. According to Newton's second law, force equals:

A. mass ÷ acceleration

B. mass + acceleration

C. mass × acceleration

D. acceleration ÷ mass

2. The process by which the body maintains a stable internal environment is called:

A. Respiration

B. Digestion

C. Homeostasis

D. Metabolism

3. Which scientist is most associated with the theory of evolution by natural selection?

A. Charles Darwin

B. Louis Pasteur

C. Gregor Mendel

D. Isaac Newton

4. Using living organisms or their processes to develop products, such as genetically modified crops, is called:

A. Astronomy

B. Meteorology

C. Geology

D. Biotechnology

5. What is the term for an organism's complete set of genetic material?

A. Genotype only

B. Genome

C. Phenotype

D. Chromosome

6. Selective breeding is best described as:

A. Random mating between any organisms

B. Choosing organisms with desired traits to breed together

C. Genetically modifying DNA directly

D. Cloning an organism exactly

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7. What unit is used to measure electrical resistance?

A. Ohm

B. Watt

C. Ampere

D. Volt

8. The number of wave crests passing a point each second is called the wave's:

A. Speed

B. Amplitude

C. Wavelength

D. Frequency

9. What is the relationship between voltage, current, and resistance, according to Ohm's law?

A. Voltage = current ÷ resistance

B. Voltage = current × resistance

C. Voltage = current + resistance

D. Voltage = resistance ÷ current

10. What is the SI unit used to measure electric current?

A. Watt

B. Ampere

C. Volt

D. Ohm

11. A wave with a short wavelength has a:

A. Low frequency

B. Low speed only

C. No energy

D. High frequency

12. The Earth is estimated to be approximately how old?

A. 100 million years

B. 4.5 billion years

C. 4.5 million years

D. 10,000 years

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12 questions locked, up to question 24.

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PREVIEW

That’s the end of the preview

You’ve seen the first 12 of the 24 questions in Science Year 10 — Practice Exam 1. The full paper is worth 24 marks.

STILL TO COME	QUESTIONS	MARKS
Science	12	12

The full paper comes with

- Every question, printed exactly like the ones in this preview
- The complete answer key, with the working behind every mark
- A topic report after marking, showing what to practice next

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