EXAM PAPER

Science Year 8 — Practice Exam 1

PREVIEW
This file has the first 15 of the 30 questions in this paper. The rest is locked: it comes with a PrepNest plan, or with the paper itself for VCE.

Total time: 45 minutes

SECTIONS IN THIS PAPER

- Science — 45 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 8 SCIENCE

Science

45 minutes

1. Which state of matter has a fixed volume but no fixed shape?

A. Solid

B. Liquid

C. Gas

D. Plasma

2. Which type of rock forms from cooled magma or lava?

A. Sedimentary

B. Metamorphic

C. Igneous

D. Fossil

3. Which part of a cell contains its genetic material?

A. Cytoplasm

B. Cell membrane

C. Nucleus

D. Cell wall

4. A trait passed from parent to offspring, such as eye colour, is called:

A. An inherited trait

B. A learned behaviour

C. A mutation only

D. An adaptation only

5. What are microorganisms too small to see without a microscope, such as bacteria, generally called?

A. Cells only

B. Tissues

C. Fungi only

D. Microbes

6. Which structure controls what enters and leaves a cell?

A. Nucleus

B. Cell membrane

C. Cell wall

D. Cytoplasm

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7. A characteristic that appears due to a change in an organism's DNA is called a:

A. Habitat

B. Mutation

C. Adaptation only

D. Ecosystem

8. According to Newton's first law, an object at rest will stay at rest unless:

A. Acted on by an unbalanced force

B. It is very heavy

C. It is made of metal

D. It is left alone for a long time

9. Sound waves and water waves are both examples of which type of wave, since they need a medium to travel through?

A. Electromagnetic waves

B. Light waves

C. Radio waves

D. Mechanical waves

10. What is the process called when a substance changes state without a chemical reaction occurring, such as ice melting?

A. A nuclear reaction

B. Combustion

C. A physical change

D. A chemical change

11. Which of Newton's laws states that for every action there is an equal and opposite reaction?

A. The law of gravity

B. The third law

C. The first law

D. The second law

12. What type of wave requires no medium and can travel through the vacuum of space?

A. Electromagnetic wave

B. Sound wave

C. Water wave

D. Seismic wave

13. Volcanic eruptions and earthquakes most commonly occur along:

A. Areas with no rock layers

B. Tectonic plate boundaries

C. The centre of continents only

D. The equator only

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14. Which layer of the atmosphere is closest to Earth's surface, where weather occurs?

A. Troposphere

B. Stratosphere

C. Mesosphere

D. Thermosphere

15. Which layer of the atmosphere contains the ozone layer that absorbs harmful UV radiation?

A. Troposphere

B. Mesosphere

C. Exosphere

D. Stratosphere

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15 questions locked, up to question 30.

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PREVIEW

That’s the end of the preview

You’ve seen the first 15 of the 30 questions in Science Year 8 — Practice Exam 1. The full paper is worth 30 marks.

STILL TO COME	QUESTIONS	MARKS
Science	15	15

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

Get the full paper at

prepnest.com.au/practice/exams/science-year_8-1

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