Science Year 8 — Practice Exam 1 — Answers & Explanations

Answers to the 15 questions in the free preview.

Science

1. B. Liquid
A liquid takes the shape of its container but keeps a fixed volume.

2. C. Igneous
Igneous rock forms when magma or lava cools and solidifies.

3. C. Nucleus
The nucleus contains DNA, which holds the genetic instructions for the cell.

4. A. An inherited trait
Inherited traits are passed genetically from parents to their offspring.

5. D. Microbes
Microbes (or microorganisms) are tiny living things, including bacteria and some fungi and viruses.

6. B. Cell membrane
The cell membrane is a selective barrier that controls the movement of substances into and out of the cell.

7. B. Mutation
A mutation is a change in an organism's DNA, which can sometimes lead to new traits.

8. A. Acted on by an unbalanced force
Newton's first law states that an object remains at rest, or in uniform motion, unless acted on by an unbalanced force.

9. D. Mechanical waves
Mechanical waves, like sound and water waves, require a medium (such as air or water) to travel through.

10. C. A physical change
A physical change, like melting or freezing, alters a substance's state without changing its chemical makeup.

11. B. The third law
Newton's third law states that every action force has an equal and opposite reaction force.

12. A. Electromagnetic wave
Electromagnetic waves, like light, can travel through the vacuum of space without needing a medium.

13. B. Tectonic plate boundaries
Most volcanic and earthquake activity occurs where tectonic plates meet, due to the movement and pressure at these boundaries.

14. A. Troposphere
The troposphere is the lowest layer of the atmosphere, where almost all weather takes place.

15. D. Stratosphere
The ozone layer, which absorbs most of the sun's harmful UV radiation, is located in the stratosphere.

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PREVIEW

That’s the end of the preview answers

These are the answers to the 15 preview questions. The full answer key covers all 30 questions in Science Year 8 — Practice Exam 1, with the working behind every mark.

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
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