



SCIENCE (YEAR 10) · PRACTICE ASSIGNMENT

Genetics and Chemical Equations Practice

PHYSICAL SCIENCES **HARD**

Work through each question in order. Show your working in the space provided where it helps — there's no time limit, just do your best.

- 1

Describe how DNA carries genetic information from parent to offspring.
- 2

Balance the chemical equation: $\text{CH}_4 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$.
- 3

Explain how the Big Bang theory describes the origin of the universe.
- 4

Describe how a wave's frequency and wavelength are related to its speed.
- 5

Explain why a scientific theory is different from a hypothesis.

TEACHER'S REMARKS

Score: _____ / 5