



COMBINED SCIENCE

KEY PERFORMANCE INDICATORS

**GRADE
9**

- AO1: Demonstrate mastery of all major concepts in Biology, Chemistry, and Physics
- AO2: Integrate ideas across the three sciences to explain complex scenarios (e.g., energy transfer in ecosystems or chemical reactions in industrial processes)
- AO3: Justify conclusions using evidence and data; evaluate the reliability of multiple data sources
- Confidently design and critique experiments, considering safety, variables, and accuracy
- Show precision in scientific language, symbols, and units

**GRADE
6**

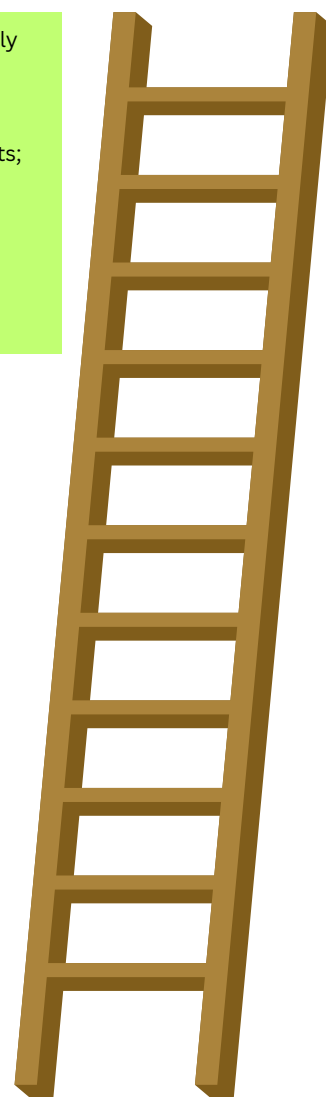
- AO1: Use secure, detailed scientific knowledge confidently
 - AO2: Explain and evaluate concepts clearly and in depth (e.g., explain how homeostasis works and why it's important)
 - AO3: Critically evaluate experimental methods and results; suggest improvements and limitations
 - Make detailed calculations and show full working
 - Integrate contextual understanding (e.g., human, environmental, or industrial relevance)
- ▲ Move up by: combining multiple concepts to explain complex scientific phenomena

**GRADE
4**

- AO1: Use scientific terminology accurately (e.g., kinetic energy, diffusion, acids and bases)
 - AO2: Explain processes and apply simple equations
 - AO3: Describe required practicals clearly – what to measure, how, and which variables to control
 - Can make simple predictions and justify them using scientific reasoning
 - Start to link cause and effect in explanations
- ▲ Move up by: applying knowledge to new or unfamiliar situations (e.g., predicting results in a new experimental setup)

**GRADE
3**

- AO1: Recall key terms, definitions, and simple facts (e.g., photosynthesis equation, parts of a cell, Newton's laws)
 - AO2: Describe simple processes step by step (e.g., how water moves in plants, how forces act)
 - AO3: Identify variables in experiments (independent, dependent, control) and simple trends in data
 - Can draw and label diagrams clearly
 - Begin to use scientific vocabulary correctly
- ▲ Move up by: explaining why things happen, not just what happens (e.g., "Plants need sunlight because it provides energy for photosynthesis")



🔑 NON-NEGOTIABLES FOR EVERY GRADE

- ✓ Learn key scientific vocabulary and equations
- ✓ Include units in all calculations
- ✓ Draw clear diagrams with labels
- ✓ Answer in full scientific sentences
- ✓ Show working and method for calculations
- ✓ Revise and understand all required practicals
- ✓ Always attempt every question
- ✓ Check answers for accuracy and consistency

**WE DREAM
BELIEVE
ACHIEVE
ARE MEPA**