

KS4 Core Subjects Answer and Guidance Booklet

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Answers and flexible marking guidance for the 35 original worksheets.

These are accessible GCSE-level skills sheets. English, History, Geography, Computer Science and Business are untiered; Combined Science activities target Foundation-accessible knowledge and application.

EL01 Reading retrieval English Language

Answer key - KS4 accessible GCSE practice.

1. On a bus, at the final stop.
2. Rain ticked; puddles; wet street.
3. The street is wet and reflects light.

Challenge: Open response with a relevant quotation.

EL02 Language analysis English Language

Answer key - KS4 accessible GCSE practice.

1. Personification.
2. Suggests violent, threatening movement.
3. e.g. surged, streamed, filed.

Challenge: Open response; personification used.

EL03 Comparison English Language

Answer key - KS4 accessible GCSE practice.

1. A is positive; B is negative.
2. "quiet refuge" and "untidy waste of space".
3. however, whereas, similarly, in contrast.

Challenge: Clear comparison, both quotations and connective.

EL04 Transactional writing English Language

Answer key - KS4 accessible GCSE practice.

1. Any one, if used consistently.
2. Open response.
3. Relevant researched/statistical claim.

Challenge: Logical persuasive structure.

EL05 Creative writing English Language

Answer key - KS4 accessible GCSE practice.

1. Open response.
2. Open response.
3. Open response; correctly used.

Challenge: Original, coherent writing with deliberate language choices.

LT01 Quotation analysis English Literature

Answer key - KS4 accessible GCSE practice.

1. Personification/metaphor.
2. Safety or isolation within darkness.
3. guarded/light.

Challenge: Point, embedded evidence and explained effect.

LT02 Character and theme English Literature

Answer key - KS4 accessible GCSE practice.

1. e.g. loyalty, secrecy, guilt, friendship.
2. Open response.
3. Open response with reasoning.

Challenge: Clear point, evidence choice and explanation.

LT03 Poetry comparison English Literature

Answer key - KS4 accessible GCSE practice.

1. A energetic/uneasy; B calm/quiet.
2. whereas, similarly, however.
3. Giving human qualities to non-human things.

Challenge: Comparative point and language analysis.

LT04 Context with care English Literature

Answer key - KS4 accessible GCSE practice.

1. The social, historical or cultural background of a text.
2. It shows the rules, values or pressures of the time.
3. A long list of historical facts.

Challenge: Relevant context linked directly to a method.

LT05 Essay planning English Literature

Answer key - KS4 accessible GCSE practice.

1. Open response with clear argument.
2. Learner-specific.
3. Return to and develop the argument.

Challenge: Logical progression of points.

SC01 Cells and transport Combined Science Foundation

Answer key - KS4 accessible GCSE practice.

1. nucleus
2. mitochondria
3. Net movement of particles from high to low concentration.
4. Higher temperature, greater surface area or bigger concentration gradient.

Challenge: Large surface area; thin walls; good blood supply.

SC02 Chemistry basics Combined Science Foundation

Answer key - KS4 accessible GCSE practice.

1. 7

2. salt and water

3. A substance made of one type of atom.

4. $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$

Challenge: Fizzing/bubbles of carbon dioxide.

SC03 Forces and energy Combined Science Foundation

Answer key - KS4 accessible GCSE practice.

1. newton (N)
2. 12 N
3. e.g. coal, oil, gas, nuclear fuel.
4. Energy cannot be created or destroyed; it is transferred.

Challenge: 180 Wh

SC04 Electricity Combined Science Foundation

Answer key - KS4 accessible GCSE practice.

1. ampere (A)
2. $V = I \times R$
3. 3 A
4. It is the same throughout.

Challenge: Appliances work independently and have full potential difference.

SC05 Ecology Combined Science Foundation

Answer key - KS4 accessible GCSE practice.

1. An organism, usually a plant, that makes its own food.
2. carbon dioxide, methane or water vapour.
3. The variety of living organisms in an area/on Earth.
4. e.g. farming, logging, building.

Challenge: Less stable ecosystems; species loss; reduced resources.

HI01 Chronology and change History

Answer key - KS4 accessible GCSE practice.

1. medieval, early modern, modern
2. Something stays similar over time.
3. Something becomes different over time.

Challenge: Open response with historical reasoning.

HI02 Sources History

Answer key - KS4 accessible GCSE practice.

1. Information about a source's origin: author, date, purpose, audience.
2. Useful contemporary personal view; limited to one person/purpose/audience.
3. Specific details from the source.

Challenge: Clear inference, quotation and explanation.

HI03 Causation History

Answer key - KS4 accessible GCSE practice.

1. A cause developing over a long period.
2. An immediate event that starts something.
3. Historical events usually have several linked causes.

Challenge: Linked causes, explaining connections.

HI04 Consequence History

Answer key - KS4 accessible GCSE practice.

1. A result someone planned or expected.
2. A result that was not planned.
3. Effects can differ over time.

Challenge: Specific event, consequence and explanation.

HI05 Interpretations History

Answer key - KS4 accessible GCSE practice.

1. A view or explanation about the past.
2. They may select/weight evidence differently or use different arguments.
3. Clear judgement supported with accurate evidence.

Challenge: Argument, counterargument and justified conclusion.

GE01 Physical processes Geography

Answer key - KS4 accessible GCSE practice.

1. Breakdown of rock in situ.
2. physical, chemical or biological.
3. Movement of rock/sediment by an agent such as water or wind.

Challenge: Breakdown weakens material; gravity can move it downslope.

GE02 Urban and development Geography

Answer key - KS4 accessible GCSE practice.

1. Growth in the proportion of people living in urban areas.
2. e.g. few jobs/services, drought, conflict.
3. e.g. jobs, education, healthcare.

Challenge: Linked explanation such as housing, congestion, pollution or services.

GE03 Data skills Geography

Answer key - KS4 accessible GCSE practice.

1. 12
2. Both variables tend to increase together.
3. An extreme value can distort it.

Challenge: Clear pattern plus specific figure.

GE04 Fieldwork Geography

Answer key - KS4 accessible GCSE practice.

1. A testable prediction.
2. e.g. survey, count, measurement, observation.
3. To improve reliability and identify anomalies.

Challenge: Specific limitation plus feasible improvement.

GE05 Decision making Geography

Answer key - KS4 accessible GCSE practice.

1. A person or group affected by a decision.
2. Decisions have different impacts and trade-offs.
3. Meeting current needs without harming future generations' ability to meet theirs.

Challenge: Judgement based on weighed evidence and stakeholders.

CS01 Algorithms Computer Science

Answer key - KS4 accessible GCSE practice.

1. A sequence of steps to solve a problem.
2. Breaking a problem into smaller parts.
3. A decision chooses between paths, e.g. IF statement.

Challenge: IF mark $\geq$ 40 THEN OUTPUT "Pass" ELSE OUTPUT "Try again"

CS02 Binary and data Computer Science

Answer key - KS4 accessible GCSE practice.

1. 1101

2. 8

3. Electronic components have two reliable states.

Challenge: 45

CS03 Hardware and software Computer Science

Answer key - KS4 accessible GCSE practice.

1. e.g. keyboard, mouse, microphone.
2. e.g. monitor, printer, speaker.
3. System software that manages hardware/software and provides interface.

Challenge: Its contents are lost when power is removed.

CS04 Networks and security Computer Science

Answer key - KS4 accessible GCSE practice.

1. A local area network over a small geographical area.
2. Forwards data between networks.
3. e.g. firewall, strong passwords, encryption, anti-malware.

Challenge: Fake messages/sites trick users into revealing information.

CS05 Programming logic Computer Science

Answer key - KS4 accessible GCSE practice.

1. Boolean
2. Repeating instructions, often using a loop.
3. Code breaks language rules so cannot run/compile.

Challenge: e.g. FOR n = 1 TO 5: OUTPUT n

BU01 Enterprise Business

Answer key - KS4 accessible GCSE practice.

1. A person who starts and takes risks in a business.
2. e.g. profit, independence, idea, service.
3. A broad goal, e.g. survive, grow, make profit.

Challenge: Linked risk/reward explanation.

BU02 Marketing Business

Answer key - KS4 accessible GCSE practice.

1. The group of customers a business aims to sell to.
2. e.g. questionnaire, interview, observation, focus group.
3. Product, price, place and promotion.

Challenge: Relevant product/price/place/promotion decision with reason.

BU03 Finance Business

Answer key - KS4 accessible GCSE practice.

1. £960
2. £260
3. A cost that does not change with output in the short term.

Challenge: 400 units

BU04 Operations Business

Answer key - KS4 accessible GCSE practice.

1. Output per worker/input over a period.
2. e.g. better skills, quality, motivation, productivity.
3. Checking quality during/after production.

Challenge: e.g. faster/consistent but high cost/job loss.

BU05 Making judgements Business

Answer key - KS4 accessible GCSE practice.

1. Give a reason supported by business evidence.
2. Groups have different interests/costs/benefits.
3. Make a clear judgement based on strongest evidence.

Challenge: Contextual judgement considering impact and trade-off.