

Assessment overview

Content domain	Total
Biology	8
Structure and function of living organisms	6
Material cycles and energy	2
Chemistry	9
Atoms, elements and compounds	4
Energetics	2
Earth and atmosphere	3
Physics	11
Motion and forces	4
Electricity and electromagnetism	7
Working scientifically	7

Question breakdown

Q	Reference
1	P2.1.b the representation of a journey on a distance-time graph
2	P2.1.b the representation of a journey on a distance-time graph
3	P2.1.a speed and the quantitative relationship between average speed, distance and time (speed = distance ÷ time)
4	P2.1.c relative motion: trains and cars passing one another
5	WS3.a apply mathematical concepts and calculate results
6	WS3.a apply mathematical concepts and calculate results
7	C5.b exothermic and endothermic chemical reactions (qualitative)
8	B1.3.d the tissues and organs of the human digestive system, including adaptations to function and how the digestive system digests food (enzymes simply as biological catalysts)
9	B1.3.d the tissues and organs of the human digestive system, including adaptations to function and how the digestive system digests food (enzymes simply as biological catalysts)
10	WS2.c select, plan and carry out the most appropriate types of scientific enquiries to test predictions, including identifying independent, dependent and control variables, where appropriate
11	WS2.d use appropriate techniques, apparatus, and materials during fieldwork and laboratory work, paying attention to health and safety
12	WS3.c interpret observations and data, including identifying patterns and using observations, measurements and data to draw conclusions
13	WS3.c interpret observations and data, including identifying patterns and using observations, measurements and data to draw conclusions
14	B1.3.c the consequences of imbalances in the diet, including obesity, starvation and deficiency diseases
15	B1.3.b calculations of energy requirements in a healthy daily diet
16	C8.b the structure of the Earth
17	C8.a the composition of the Earth
18	C8.b the structure of the Earth
19	C2.b differences between atoms, elements and compounds
20	C2.b differences between atoms, elements and compounds

Question breakdown

Q	Reference
21	C2.c chemical symbols and formulae for elements and compounds
22	C2.d conservation of mass changes of state and chemical reactions
23	C5.a energy changes on changes of state (qualitative)
24	P4.3.b magnetic fields by plotting with compass, representation by field lines
25	P4.3.a magnetic poles, attraction and repulsion
26	P4.3.b magnetic fields by plotting with compass, representation by field lines
27	P4.3.a magnetic poles, attraction and repulsion
28	P4.1.b potential difference, measured in volts, battery and bulb ratings; resistance, measured in ohms, as the ratio of potential difference (p.d.) to current
29	P4.1.a electric current, measured in amperes, in circuits, series and parallel circuits, currents add where branches meet and current as flow of charge
30	WS4.b use and derive simple equations and carry out appropriate calculations
31	P4.1.b potential difference, measured in volts, battery and bulb ratings; resistance, measured in ohms, as the ratio of potential difference (p.d.) to current
32	B1.1.c the similarities and differences between plant and animal cells
33	B1.4.d the role of leaf stomata in gas exchange in plants
34	B2.1.a the reactants in, and products of, photosynthesis, and a word summary for photosynthesis
35	B2.1.c the adaptations of leaves for photosynthesis