

# IGCSE Biology Workbook Answers

## 1 Characteristics and classification of living things

### Core

- nutrition – taking in materials for energy, growth and development  
 respiration – the breakdown of food in cells for energy, growth and development  
 excretion – the removal from an organism of toxic materials and substances in excess of requirements  
 sensitivity – the ability to detect and respond to changes in the environment  
 reproduction – making more of the same kind of organism  
 growth – a permanent increase in size  
 movement – an action by an organism causing a change of position or place [1 mark for each correct statement]
- Any suitable sentence with seven words linked to the characteristics of life, e.g. Most Rats Start Gathering Rice Every Night [3]
- Across: 5 excretion, 6 nutrition, 7 respiration [3]  
 Down: 1 sensitivity, 2 reproduction, 3 movement, 4 growth [4]
- Respiration is the release of energy from food substances in cells. Breathing is the process of ventilation of the lungs. [4]
- ref. to faeces being undigested food; which has not been formed through metabolic processes [2]
- (fish and amphibians)  
 Common features – any two from: cold blooded; have eyes; produce jelly-covered eggs (in water) [2]  
 Differences: ref. to gills/lungs; fins/legs; scales/moist skin [1]  
 (amphibians and reptiles)  
 Common features – any two from: four legs; eyes and ears; cold blooded; lungs [2]  
 Differences: ref. to moist skin/scales; jelly-covered eggs/waterproof shell [1]  
 (birds and mammals)  
 Common features – any two from: eyes and ears; warm blooded; lungs [2]

Differences: ref. to feathers/fur; two legs/four legs; eggs with hard shell/live young; beak/no beak (or ref. to teeth); ears/ears with pinna; no mammary glands/mammary glands [1]

- 7 A insect, B arachnid, C myriapod, D crustacean, E mollusc, F annelid, G nematode [7]

8 [3]

Plant	1a	1b	2a	2b	3a	3b	Name of plant
A	–	✓	–	–	–	✓	<i>Primula vulgaris</i>
B	✓	–	–	✓	–	–	<i>Narcissus pinnatifidus</i>
C	–	✓	–	–	✓	–	<i>Ranunculus ficaria</i>
D	✓	–	✓	–	–	–	<i>Hyacinthoides non-scripta</i>

### Extended

- a i Any three from: multicellular; have roots/stems/leaves; ref. to seed production [3]  
 ii Any three from: (cellulose) cell wall; sap vacuole; nucleus; cytoplasm; membrane [3]

b leaf shape – broad; leaf veins – parallel; cotyledons – two; grouping of flower parts – in threes [4]
- protocists, fungi, plants, bacteria [4]
- a Fungi – any two from: presence of hyphae; ref. to mycelium; chitin in cell walls; no chlorophyll present; ref. to spores; enzymes secreted for food digestion [2]  
 Bacteria – any two from: small; cell wall – not cellulose or chitin; membrane/cytoplasm present; glycogen granules present; DNA in form of one coiled chromosome; no nucleus [2]  
 Viruses – any two from: very small; no special cell structure; have a strand of DNA/RNA; surrounded by protein coat/ref. to capsid; only show reproduction [2]

b virus, bacteria, fungi [1]

c require a host cell to reproduce [2]

# Study Workbook A Biology Answers

**G Thomas**



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