

Biology AS 90929

Demonstrate understanding of biological ideas relating to a mammal(s) as a consumer(s)

Level 1, 3 Credits

This achievement standard involves demonstrating understanding of biological ideas relating to a mammal(s) as a consumer(s).

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of biological ideas relating to a mammal(s) as a consumer(s).	Demonstrate in-depth understanding of biological ideas relating to a mammal(s) as a consumer(s).	Demonstrate comprehensive understanding of biological ideas relating to a mammal(s) as a consumer(s).

The biological ideas relating to a mammal(s) as a consumer(s) will be selected from:

- ☐ related life processes
 - Circulatory system - organ system that transports material in blood such as food or oxygen to every cell in the body and removes waste such as carbon dioxide
 - Digestive system – organ system which breaks down food (into smaller pieces), so that the body can use it/ can be absorbed into the blood
 - Respiratory System – organ system which exchanges gases with the environment
- ☐ structural components involved with the life processes
 - the alimentary canal from mouth to anus
 - the heart, veins, arteries, and capillaries
 - the lungs
- ☐ the functioning of the structural components
 - compare the generalised digestive systems of herbivores, omnivores, and carnivores
- ☐ the overall function of the life processes
 - relate processing of food, circulation, and respiration to each other
 - relate processing of food, circulation, and respiration to the overall survival of the mammal

Life processes related to a mammal(s) as a consumer(s) will be selected from:

- ☐ Processing food
 - physical digestion – teeth and stomach
 - chemical digestion – enzymes
 - basic practical work relating to digestive enzymes
 - the effect of changing pH levels on the enzyme action
- ☐ Absorption
 - Villus role and structure
 - Role of microvilli, capillary network and lacteal

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Assimilation

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Egestion

Transport of products of digestion within the body

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Circulation (heart, veins, arteries, and capillaries)

Use of food at the cell level

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Respiration

- aerobic respiration
- raw materials
- products

Demonstrate understanding involves defining, using annotated diagrams, and giving characteristics of, or an account of, a mammal(s) as a consumer(s).

Demonstrate in-depth understanding involves explaining the life processes and biological ideas relating to a mammal(s) as a consumer(s).

Demonstrate comprehensive understanding involves linking biological ideas relating to a mammal(s) as a consumer(s). It may involve elaborating, applying, justifying, relating, evaluating, comparing and contrasting, or analysing.

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