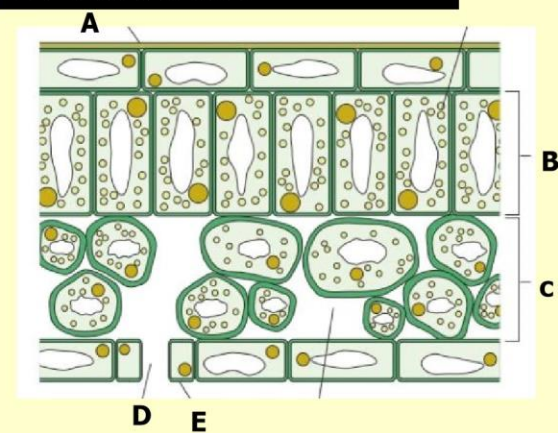


Section 1: Photosynthesis

Key word	Definition
1. Producer	An organism that makes its own food using photosynthesis
2. Consumer	An organism that eats other organisms as food
3. Photosynthesis	The process plants use to make their own food, glucose.
4. Chlorophyll	Green pigment that absorbs light for use in photosynthesis
5. Word equation for photosynthesis: $\text{carbon dioxide} + \text{water} \xrightarrow{\text{light}} \text{glucose} + \text{water}$	

Section 2: Leaves



	Letter	Part of leaf	Function
6	A	Waxy layer	Reduces the amount of water evaporating
7	B	Palisade layer	Packed with chloroplasts to enable photosynthesis
8	C	Spongy layer	Contains air spaces to enable gases to diffuse throughout of the leaf
9	D	Stomata	Allows gases to diffuse into and out of the leaf
10	E	Guard cell	Open and close stomata

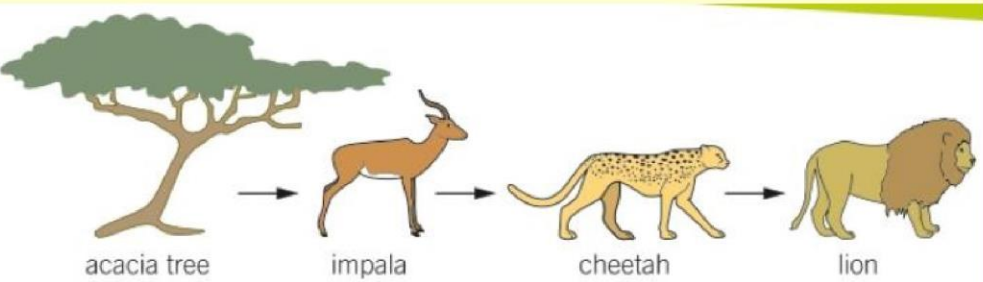
Section 3: Plant minerals		
11	nitrates	Contain nitrogen for healthy growth
12	phosphates	Contains phosphorus for healthy roots
13	Potassium	Contains potassium for healthy leaves and flowers
14	magnesium	For making chlorophyll

Section 4: Chemosynthesis	
Definition	
15 Chemosynthesis	Chemosynthesis uses chemicals as a source of energy by bacteria

Section 5: Respiration

16	Aerobic respiration	Glucose + oxygen → carbon dioxide + water (+ energy)
17	Anaerobic respiration	Glucose → lactic acid (+ energy)
18	Fermentation	Glucose → ethanol + carbon dioxide (+ energy)

Section 6: Food chains and webs



Key word	Definition
19. Food chain	Diagram showing the transfer of energy between organisms
20. Food web	Diagram showing linked food chains
21. Predator	Animal that eats another animal
22. Prey	Animal that is eaten
23. Bioaccumulation	The build up of toxic chemicals inside organisms in a food chain

Section 7: Ecosystems	
Key word	Definition
24. Ecosystem	Living organisms in a particular area, and the habitat they live in
25. Community	Plants and animals found in a particular habitat
26. Habitat	Place where a plant or an animal lives
27. Niche	Particular place or role that an organism has in an ecosystem