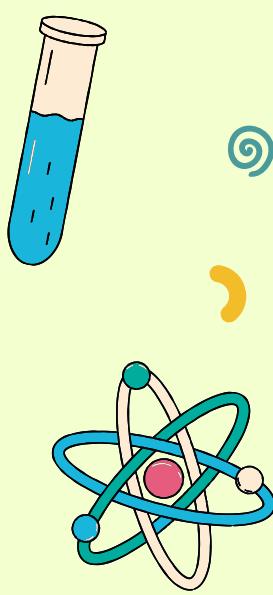
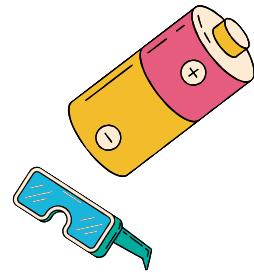
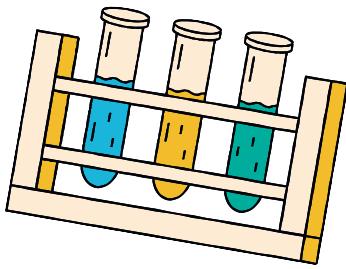


# BIOLOGY

## MATERIAL CYCLES

Key stage 3





## HOME WORK

Q1. What is a material cycle?

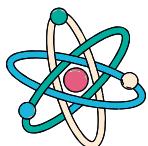
- a) A process by which materials are consumed and destroyed
- b) A process by which materials are constantly reused and recycled in nature
- c) A process that involves the creation of new materials
- d) A process that only occurs in human-made systems

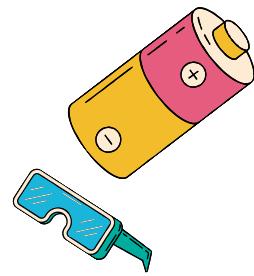
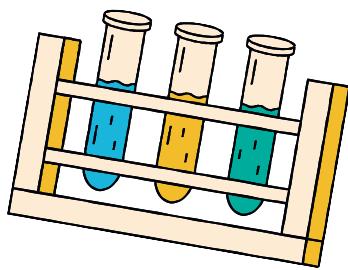
• **ANSWER:**

Q2. What is the water cycle?

- a) The process of recycling plastic bottles
- b) The process of changing liquid water into ice
- c) The continuous movement of water between the Earth's surface and the atmosphere
- d) The process of purifying water for consumption

• **ANSWER:**





Q3. What is the carbon cycle?

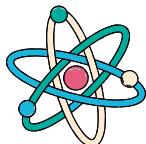
- a) The process of capturing carbon dioxide from the atmosphere
- b) The process of releasing carbon dioxide into the atmosphere
- c) The movement of carbon between living organisms, the atmosphere, and the Earth's crust
- d) The process of turning carbon into a solid substance

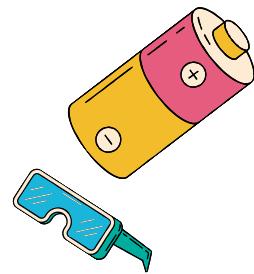
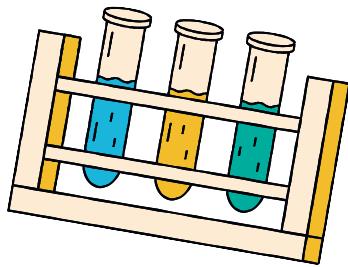
• **ANSWER:**

Q4. What is a primary producer in the carbon cycle?

- a) A factory that produces carbon emissions
- b) An organism that directly obtains energy from the sun and converts it into food
- c) A large tree that captures carbon dioxide
- d) A consumer that feeds on other organisms

• **ANSWER:**





Q5. What role do decomposers play in material cycles?

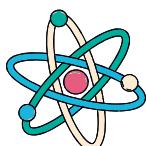
- a) They release energy through photosynthesis
- b) They break down dead organisms and recycle nutrients back into the environment
- c) They only exist in aquatic ecosystems
- d) They help plants capture carbon dioxide

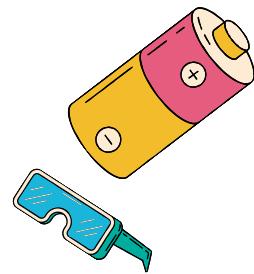
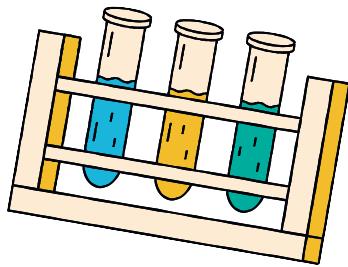
• **ANSWER:**

Q6.What is the nitrogen cycle?

- a) The process of turning nitrogen gas into oxygen
- b) The process of converting nitrogen gas into a solid form
- c) The movement of nitrogen between the atmosphere, soil, and living organisms
- d) The process of absorbing nitrogen from the soil through roots

• **ANSWER:**





Q7. How do plants obtain nitrogen for growth?

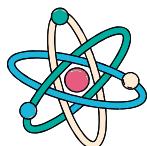
- a) They absorb nitrogen gas directly from the atmosphere
- b) They obtain nitrogen by consuming other plants
- c) They obtain nitrogen from soil through their roots
- d) They release nitrogen into the atmosphere

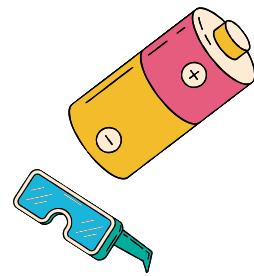
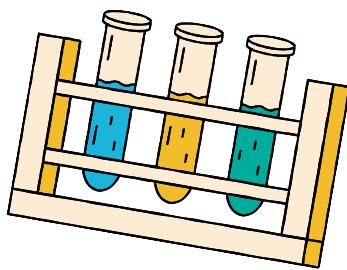
• **ANSWER:**

Q8.What is the role of bacteria in the nitrogen cycle?

- a) Bacteria release carbon dioxide into the atmosphere
- b) Bacteria break down nitrogen compounds and convert them into nitrogen gas
- c) Bacteria consume nitrogen gas directly from the atmosphere
- d) Bacteria produce oxygen through photosynthesis

• **ANSWER:**





Q9. How does deforestation affect material cycles?

- a) Deforestation has no impact on material cycles
- b) Deforestation increases carbon dioxide levels in the atmosphere
- c) Deforestation has no effect on nitrogen cycle
- d) Deforestation speeds up the water cycle

• **ANSWER:**

Q10. What is the role of the atmosphere in material cycles?

- a) The atmosphere is not involved in material cycles
- b) The atmosphere is where materials are stored indefinitely
- c) The atmosphere is where gases are exchanged and materials move between different components of the cycle
- d) The atmosphere only affects the carbon cycle

• **ANSWER:**

