

Maths Locker: AQA GCSE Biology



Revision Booklet

Study Advice

Before attempting these questions, review chapters 1-9 of your AQA specification. We recommend watching the relevant summary videos and completing the multiple-choice quizzes on [Cognito Edu](#) to refresh your memory.

Section 1: Cell Biology & Transport

1. What name is given to cells that have a cell membrane, cytoplasm, and genetic material enclosed in a nucleus?

2. Which process is defined as the movement of substances from a dilute solution to a more concentrated solution against a concentration gradient, requiring energy from respiration?

3. What is the term for the diffusion of water through a partially permeable membrane from a dilute solution to a concentrated solution down a concentration gradient?

4. What is the name of the undifferentiated cells with the potential to form a wide variety of different cell types?

Section 2: Organisation & Digestive System

5. What is the biological term for a group of specialised cells with a similar structure and function?

6. Which biological catalysts, usually proteins, speed up the rate of reactions?

7. What is the specific site on an enzyme where the reactants bind?

8. What substance neutralises stomach acid to give a high pH for the enzymes from the pancreas and small intestine to work well, noting that it is not an enzyme itself?

Section 3: Infection, Disease & Bioenergetics

9. What do we call microorganisms that cause disease?

10. What type of disease is caused by pathogens and can be passed from one organism to another?

11. By what specific process do plants make food using carbon dioxide, water, and light?

12. Which exothermic reaction breaks down glucose using oxygen to produce carbon dioxide and water, releasing energy for the cells?