

KS3 Curriculum Overview – Biology 2022

Year
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Cells, tissues, organs and systems

- Life Processes
- Cells
- Tissues
- Organs
- Organ Systems

Sexual Reproduction in animals

- Sexual Reproduction
- Reproductive Organs
- Becoming Pregnant
- Gestation and Birth
- Growing Up

Muscles and bones

- Muscles and Breathing
- Muscles and Blood
- The skeleton
- Muscles and Moving
- Drugs

Ecosystems

- Variation
- Adaptations
- Effects of the Environment
- Effects on the Environment
- Transfers in Food Chains

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Food and nutrition

- Nutrients
- Food Tests
- Diets
- Digestion
- Absorption

Breathing and Respiration

- Aerobic Respiration
- Gas exchange
- Getting oxygen
- Other gas exchange
- Anaerobic Respiration

Unicellular organisms

- Unicellular or Multicellular
- Microscopic Fungi
- Bacteria
- Protoctists
- Decomposers and Carbon

Plants and their reproduction

- Classification
- Types of reproduction
- Pollination
- Fertilisation and Dispersal
- Germination and Growth

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Genetics and Evolution

- Environmental Variation
- Inherited Variation
- DNA
- Genes and Extinction
- Natural Selection

Plant Growth

- Reactions in Plants
- Plant Adaptations
- Plant Products
- Growing Crops
- Farming Problems

Cell structure and transport

- Animal and Plant cells
- Transport in cells

Digestion

- Tissues and organs
- Digestive system

KS4 Curriculum Overview – Biology 2022



Specification at a glance

- 1. Cell biology
- 2. Organisation
- 3. Infection and response
- 4. Bioenergetics
- 5. Homeostasis and response
- 6. Inheritance, variation and evolution
- 7. Ecology

