**Organisation**

* Cell structure
* Principles of organisation
* Animal tissues, organs and organ systems
* Plant tissues, organs and systems
* Transport in cells

**Bioenergetics**

* Photosynthesis
* Exchange and transport in plants
* Circulation
* Digestion
* Breathing
* Respiration

**Ecology**

* Energy transferred in ecosystems
* Adaptations, interdependence and competition
* Decay and the carbon cycle
* The effect of human interaction on ecosystems and biodiversity

**Organisms’ interaction with the environment**

* The human nervous and hormonal systems
* Principles of homeostasis
* Control of water and ion content of the body
* Temperature control
* Control of blood glucose
* Behaviour
* Infection and response

**Inheritance**

* Reproduction
* Cell division
* Genetic variation
* Genetic disorders
* Genetic manipulation

**Variation and Evolution**

* Variation
* Natural selection