Ballymena Academy

CARE • ENGAGE • EXCEL • RESPECT

# Year 10 *Big Picture*

*Building knowledge for a healthier, fairer and more sustainable world*

*Curiosity today. Brighter tomorrows.*

## 1 Diet and Digestion

Fuel for life



- Nutrients and a balanced diet
- Carbohydrates, proteins, fats, vitamins, minerals, fibre and water
- Food tests
- The structure and function of the digestive system
- Mechanical and chemical digestion
- Enzymes in digestion
- Absorption of food molecules
- Health and diet-related diseases

## 2 Blood and Circulation

Keeping you moving



- The components and functions of the blood
- The structure and function of the heart
- Blood vessels: arteries, veins and capillaries
- Blood circulation and the double circulatory system
- Coronary heart disease and risk factors
- Maintaining a healthy heart
- Blood clotting and its importance

## 3 Reproduction

Continuing life



- The human reproductive systems (male and female)
- The menstrual cycle
- Fertilisation and early development of the foetus
- Pregnancy and birth
- Infertility and the study of IVF
- Contraception

## 4 Biodiversity

Our living world



- The variety of life on Earth
- Classification and the five kingdoms
- Habitat and niche
- Adaptations to environments
- Interdependence of organisms in ecosystems
- Threats to biodiversity (habitat loss, pollution, climate change, invasive species)
- Conservation and ways to protect and enhance biodiversity

*Small changes. A bigger, brighter future.*

PEOPLE | PLANET | POSSIBILITIES