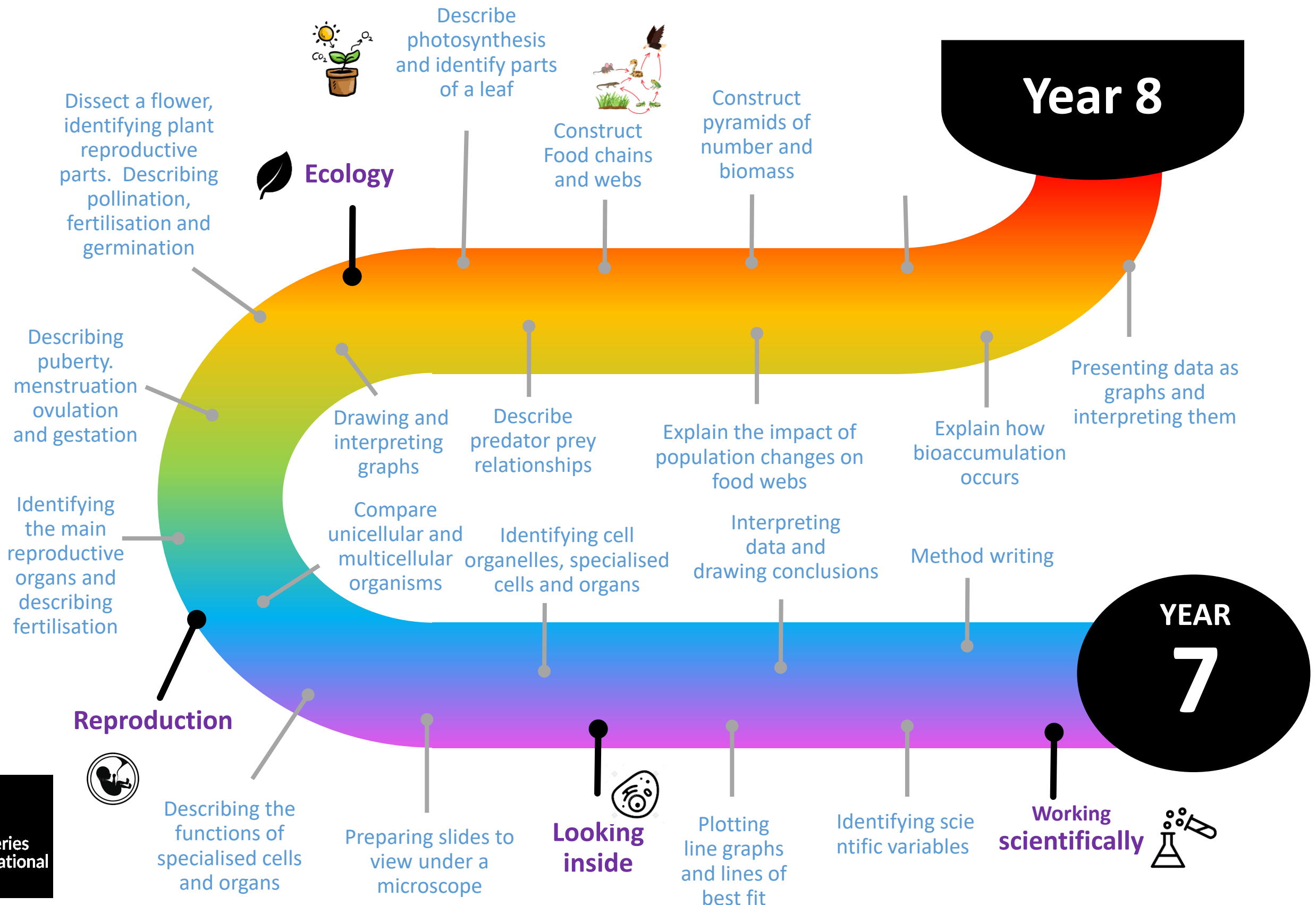
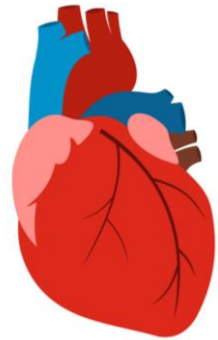


# Year 7 Learning Journey - Biology



# Year 8 Learning Journey - Biology

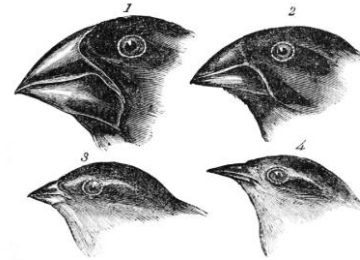


Describe the functions of the circulatory system



## Genetics and evolution

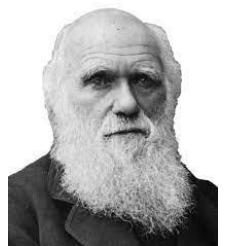
Look at how characteristics are inherited



Look at how adaptations help organisms survive



Year 9



Look at evidence for evolution and natural selection

Compare respiration and combustion

Compare variation in a species

Look at the structure of DNA

## Systems for survival

Calculate BMI and EAR

Investigate absorption using visking tubing

Carry out food tests

Describe the role of muscles

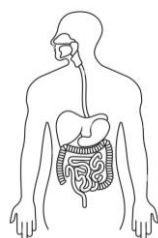


YEAR 8

Describe the function of the breathing



Investigating digestion with enzymes

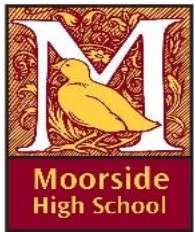


Name parts of the digestive system, link to their role

Identify components of a balanced diet

Identify bones and joints





# Year 9 Learning Journey - Biology



Label and describe the functions of the organs of the digestive system and explain how their adaptations enable their function

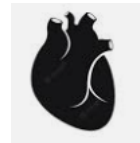
Describe the enzymes used in digestion and the conditions which affect their ability to function

Investigate the effect of pH on enzyme action

Describe coronary heart disease, heart defects and available treatments

Describe what causes cancer and the difference between benign and malignant tumours

**Year 10**



Describe tissues, organs and organ systems

Describe plant organs, tissues and transport in plants



**B2 Organisation**

Calculate percentage change

Use reagents to test for each food group

Label the structures of the heart and lungs and describe their function

Describe blood and the structure of blood vessels



Investigate the process of osmosis

Describe the process of Mitosis

Describe the functions of specialised cells and organs

Prepare slides to view under a microscope

Describe Eukaryotes and Prokaryotes



Describe the processes of diffusion, osmosis and active transport

State the definition of stem cells and describe their uses

Explain the difference between DNA, chromosomes and genes

Compare electron and light microscopes and calculate magnification, actual size and image size

Label cell organelles and describe their functions

**B1 Cell Biology**

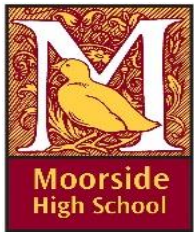
**YEAR 9**



Science - Biology

Learning Journey

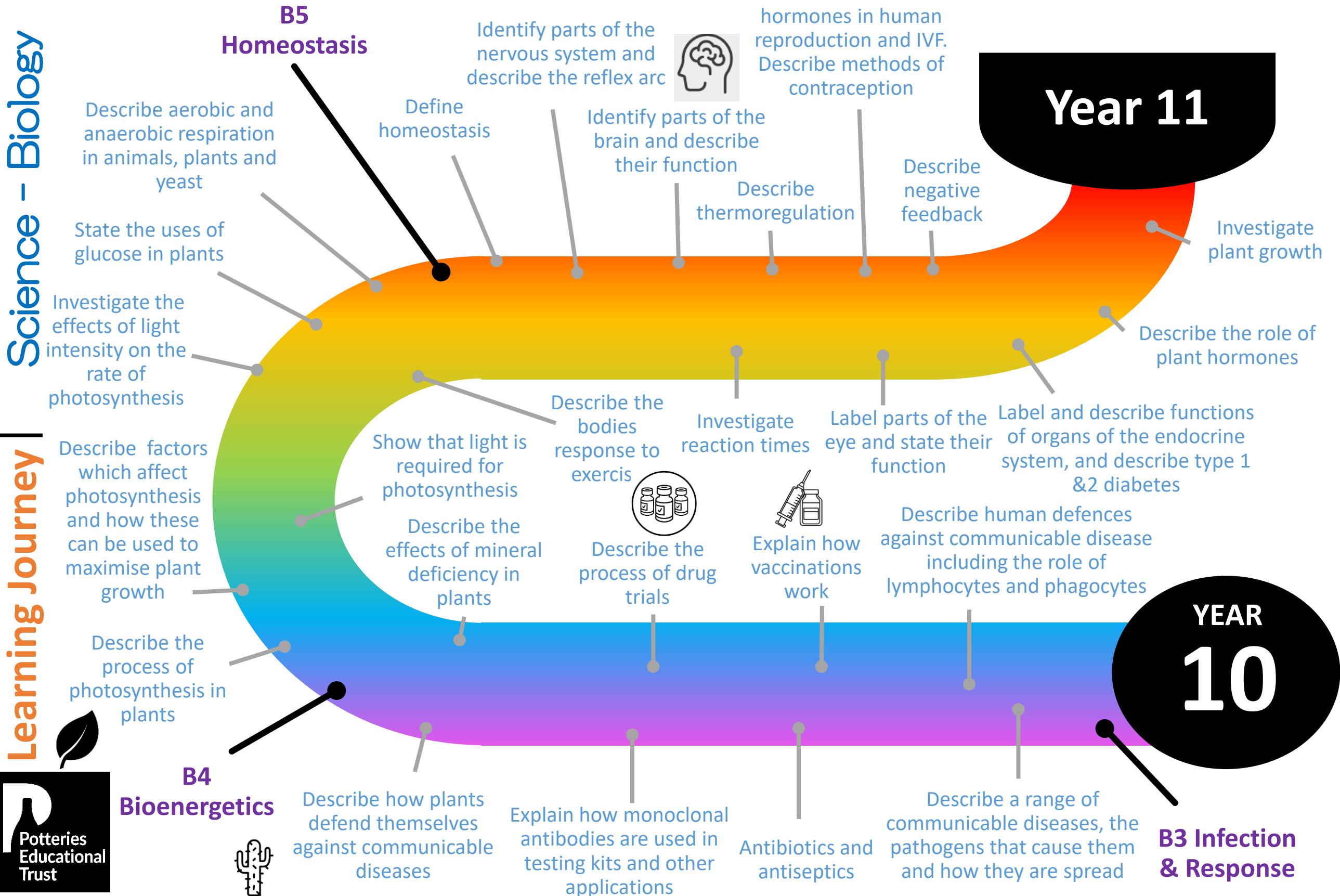




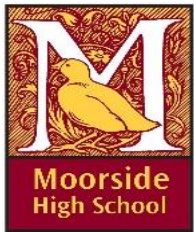
# Year 10 Learning journey - Biology

Science - Biology

Learning Journey







# Year 11 Learning journey - Biology

Science - Biology

Learning Journey

