There will be an interim assessment in each units; strengths and areas for development will be identified.

1. Scientific Investigation

Year

8

START

To start Year 8 we revisit the work on scientific investigations covered during Year 7. In this first unit we will be investigating why penguins huddle. All the scientific skills will be covered including planning an investigation, displaying data appropriately, plotting graphs, drawing **conclusions** from data and **evaluating** investigations.

Half

term



Following a scientific method and analysing results: food



Control Lancoster Year 8 Biology at CLHS

2. Organisms 3: Digestion

In this unit we look in detail at the digestive system. We start by considering what a balanced diet is and then we test different foods to determine which nutrients they

contain. Next we look at the organs of the digestive system and what part they play in the process of digesting food before studying enzymes and how they help digestion.

3. Organisms 4: **Body systems**

This unit builds on the work in year 7 where we looked at organisational hierarchy within organisms and focuses on two different body systems. We start by looking at the lungs and how they are adapted for gas exchange. After this we look at the different components of

the **blood** and how the **heart** is designed to pump it around the body efficiently. We focus on building our literacy skills by communicating scientific ideas effectively.







(organisms 3, matter 3, waves 2)

Extended writing iourney of the blood around the body

assessed task



Half

term

5



Half

term

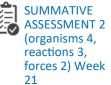
We start by looking at the reproductive organs found in plants and how **pollination** requires pollen to be transferred from one plant to another. This links to previous work on interdependence and why insects are important. We then look at fertilisation and how seeds are formed before moving on to **germination** and what seeds and plants need to grow. We finish by considering different methods

> best shape for wind dispersal

> > Literacy: explaining scientific ideas using key words - natural









Half

term





5. Genes 3 -**Evolution**

Building on prior knowledge about variation and inheritance we recap how adaptations give organisms an advantage and how this can lead to evolution

via natural selection. We look at the work of Charles Darwin and think about why his theory was rejected by many but how fossils have provided evidence to support his theory. We finish by looking at how organisms can become extinct and methods we can use to try and preserve biodiversity.

