



Lower Heath Our Science Pathway



Cycle A

Animals including Humans - A3

Living Things and their Habitats - A3

- 1. The key stages of a mammal's life cycle
- 2. The gestation periods of mammals
- 3. Learn about foetal development
- 4. The hand span of different aged children
- 5. The changes experienced in puberty
- 6. The changes humans experience in old age
- 1. Classify living organisms
- 2. The kingdoms of life
- 4. Characteristics of microorganisms
- 5. Investigate asexual reproduction
- 6. Classify and describe a living organism

Light - A1

Electricity - A1



Forces - A2



Environment - A2

- 1. Explore how light travels
- 2. Explore reflection
- 3. How reflection can be used to help us to see
- 4. Investigate how shadows can change
- 5. Why shadows have the same shape as the object that casts them
- 6. Light phenomena
- 1. Describe the parts of an electric circuit
- 2. Explore voltage
- 3. Identify and correct problems in a circuit
- 4. What affects the output of a circuit
- 5. Build a set of traffic lights
- 6. Apply knowledge of conductors and insulators
- 1. Explore gravity
- 2. The connection between air resistance and parachutes
- 3. An object's ability to resist water
- 4. The effects of friction
- 5. Investigate mechanisms - levers and pulleys
- 6. Investigate mechanisms - gears
- 1. Learn about climate change
- 2. Ways to reduce how much rubbish is sent to landfill
- 3. Ways to reduce energy consumption
- 4. What happens when fuels are burnt
- 5. Explore the outcomes of COP26
- 6. Compare data associated with the weather

YEAR 5/6

Living Things and their Habitats - A3

Plants - A2

- 1. Explore different habitats
- 2. Research a habitat
- 3. Explore how animals can be classified
- 4. Create a classification key
- 5. Adaptations and classification
- 6. Explore and classify pond plants
- 7. Describe ecosystems
- 8. Understand human impact on the environment through deforestation
- 9. Explore air pollution
- 10. Understand water pollution
- 11. Explore methods that can be used to conserve water
- 12. Understand that humans can have a positive impact on nature
- 1. Identify the difference between light sources and non light sources
- 2. Explore the light that comes from the sun
- 3. Discover how shadows are formed
- 4. Investigate how to change the size of shadows
- 5. Adaptations and classification
- 6. Investigate how water contributes to the weathering of rocks
- 7. Explore different types of soil
- 8. Explore how water contributes to the weathering of rocks
- 9. Life cycle of flowering plants
- 10. Water transportation within plants
- 11. The effect of different factors on plant growth
- 12. The functions of different parts of a flowering plant

YEAR 3/4

Scientific Enquiry - A1



Light - A1

Rocks - A2



- 1. Posing questions and writing predictions
- 2. Recording and presenting results
- 3. Writing a method and carrying out a practical test
- 4. Writing a conclusion
- 5. Fair testing, controls and variables
- 6. Making a cake: scientific enquiry
- 7. The difference between seeds and bulbs
- 8. Discover how shadows are formed
- 9. Investigate how shadows change through the day
- 10. Formation and properties of igneous rocks
- 11. Weathering and the suitability of rocks
- 12. Understand how fossils are formed
- 1. Observe and record the growth of plants over time
- 2. Describe what plants need to grow and stay healthy
- 3. Know that fruit trees and vegetables are types of plants
- 4. Understand that different plants can grow in the same environment
- 5. Understand that seeds grow into plants
- 6. Explore the difference between wild animals and pets
- 7. The effect of different factors on plant growth
- 8. The functions of different parts of a flowering plant

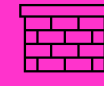
Plants - A3



- 1. Understand that seeds grow into plants
- 2. Identify the basic parts of a plant and tree
- 3. Learn about your ears and hearing
- 4. Discover the type of food living things eat
- 5. Explore your sense of touch
- 6. Record the growth of a plant
- 7. Differences between deciduous and evergreen trees
- 8. Learn about the differences between mammals and birds
- 9. Learn about the differences between amphibians, reptiles and fish
- 10. Discover the type of food living things eat
- 11. Explore the difference between wild animals and pets
- 12. Explain the characteristics of an animal
- 1. Discover the basic parts of the human body
- 2. Learn about your eyes and sight
- 3. Learn about your ears and hearing
- 4. Explore the tongue and taste
- 5. Discover how your nose smells
- 6. Discover animal families
- 7. Discover animal families

YEAR 1/2

Everyday Materials - A1



Animals Including Humans - A2



- 1. Identify and name a variety of everyday materials
- 2. Distinguish between an object and the material that it is made from
- 3. Describe the properties of everyday materials
- 4. Identify natural/manmade objects
- 5. Predict/identify floating and sinking objects
- 6. Investigate the best materials for different objects
- 7. Build a structure to withstand wind
- 8. Design an experiment to find out what plants need to grow
- 9. Understand the properties of glass
- 10. Understand the materials used to create furniture
- 11. Explore a variety of fabrics
- 12. Explain the uses of materials
- 1. Discover the basic parts of the human body
- 2. Learn about your eyes and sight
- 3. Learn about your ears and hearing
- 4. Explore the tongue and taste
- 5. Discover how your nose smells
- 6. Discover animal families
- 7. Discover animal families

Health and Safety - A3



The Beach - A3



Our Body - A3



- 1. How to stay safe when using electricity
- 2. Learn about your home and what you need
- 3. Measure footprints in the sand
- 4. Explore how waves wear away the coastline
- 5. Changes in our bodies
- 6. Body parts: eyes and noses
- 1. Body parts: arms, legs and chest
- 2. Know where animals live and what they need
- 3. Body parts: ears and noses
- 4. Learn about which animals live on a farm
- 5. Discover how your nose smells
- 6. Discover animal families
- 7. Discover animal families

EYFS

Senses - A1



Weather and Seasons - A1



Animals - A2



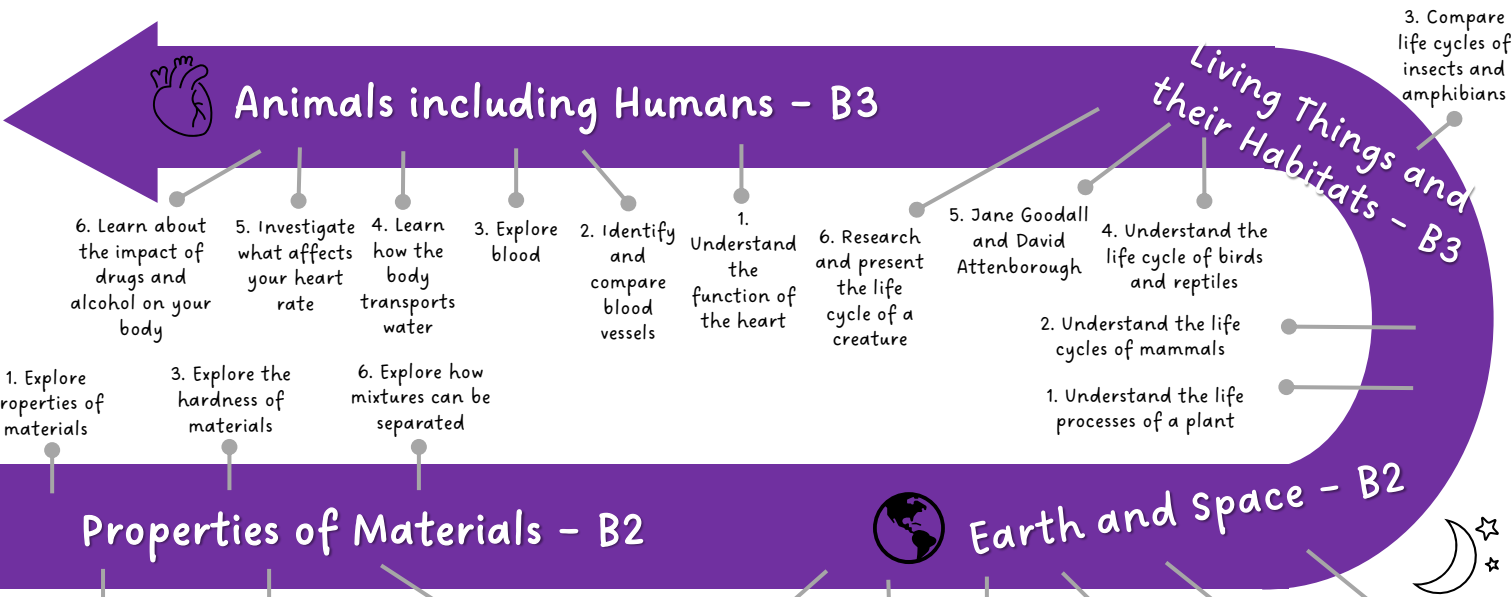
- 1. Sight, taste and touch
- 2. Explore ways to make sound
- 3. Hearing and sight
- 4. Smell and touch
- 1. Rain, ice and water
- 2. Describe why the air moves
- 3. Know about snow and melting
- 4. Rainbows in the sky
- 5. Seasonal changes in Spring and Summer
- 6. Seasonal changes in Autumn and Winter
- 1. Learn about living things which are animals
- 2. Know where animals live and what they need
- 3. Body parts: eyes and noses
- 4. Learn about which animals live on a farm
- 5. Know about dinosaurs which roamed the earth
- 6. Bears
- 2. Learn about plants and where they come from
- 3. How to look after plants
- 1. Learn about living things which are plants



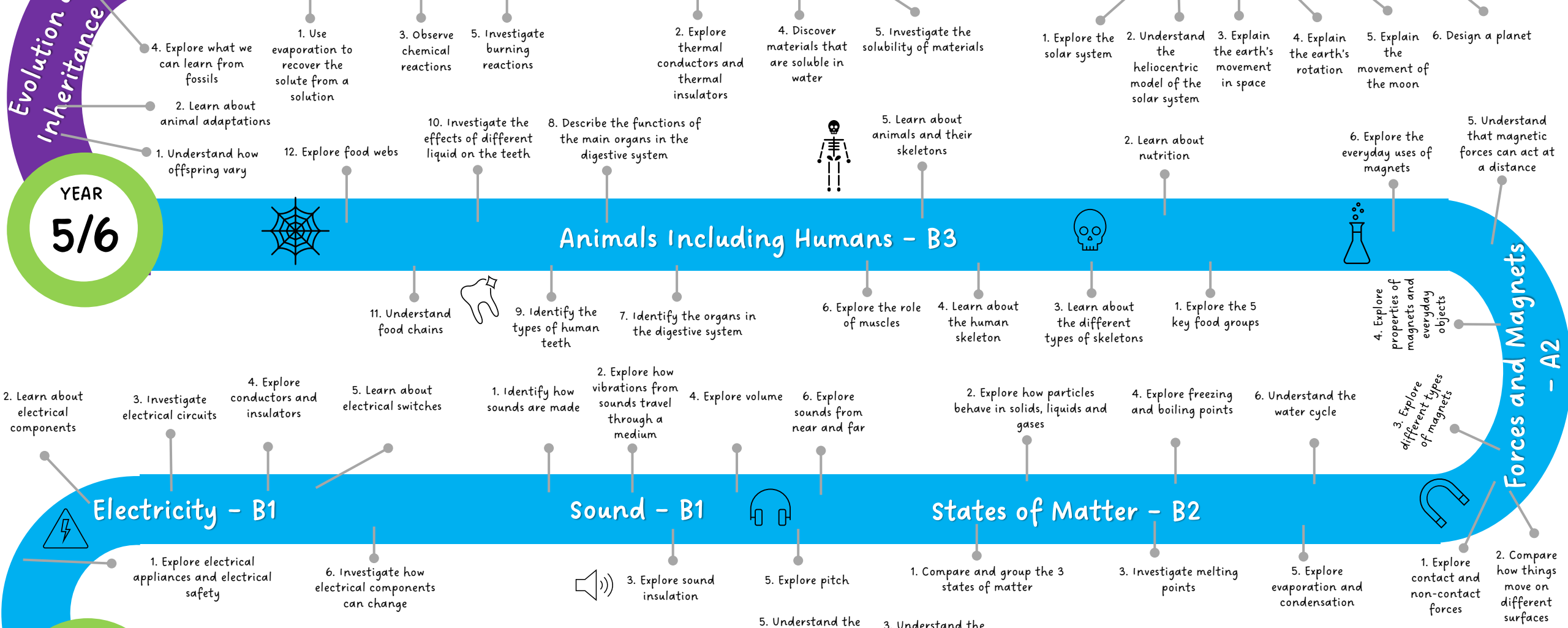
Lower Heath Our Science Pathway



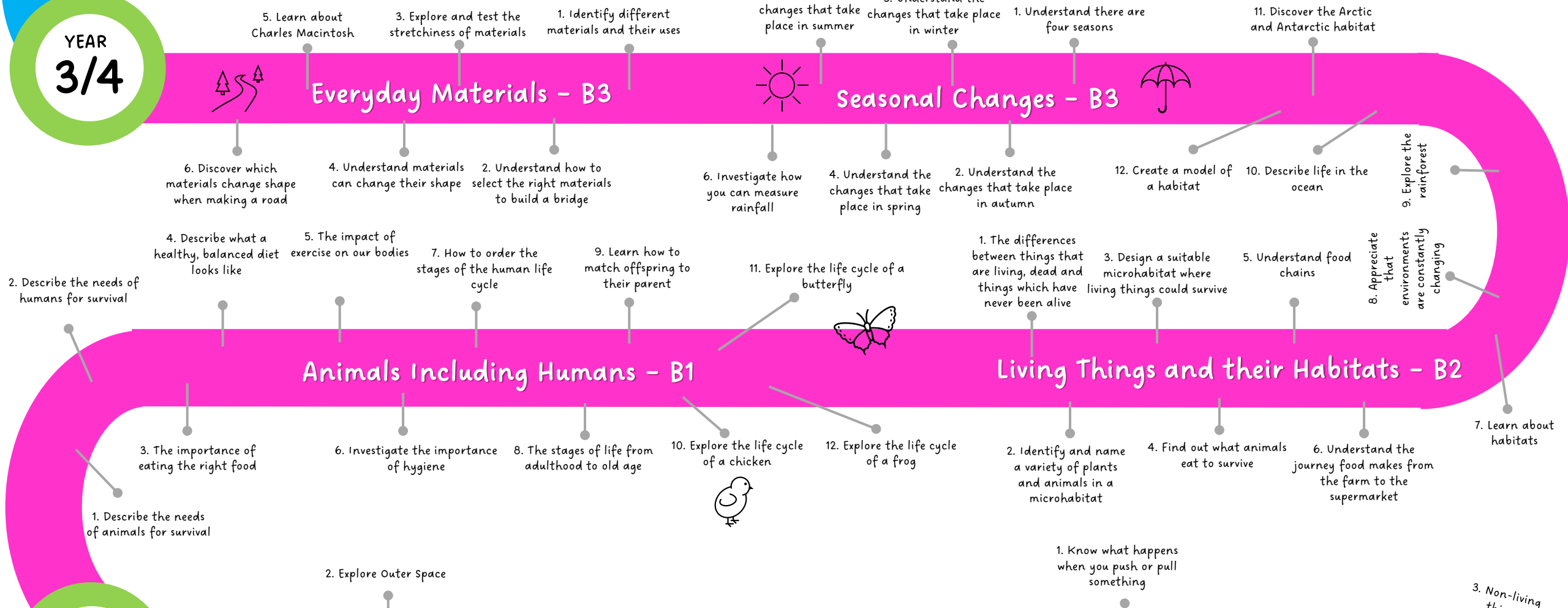
Cycle B



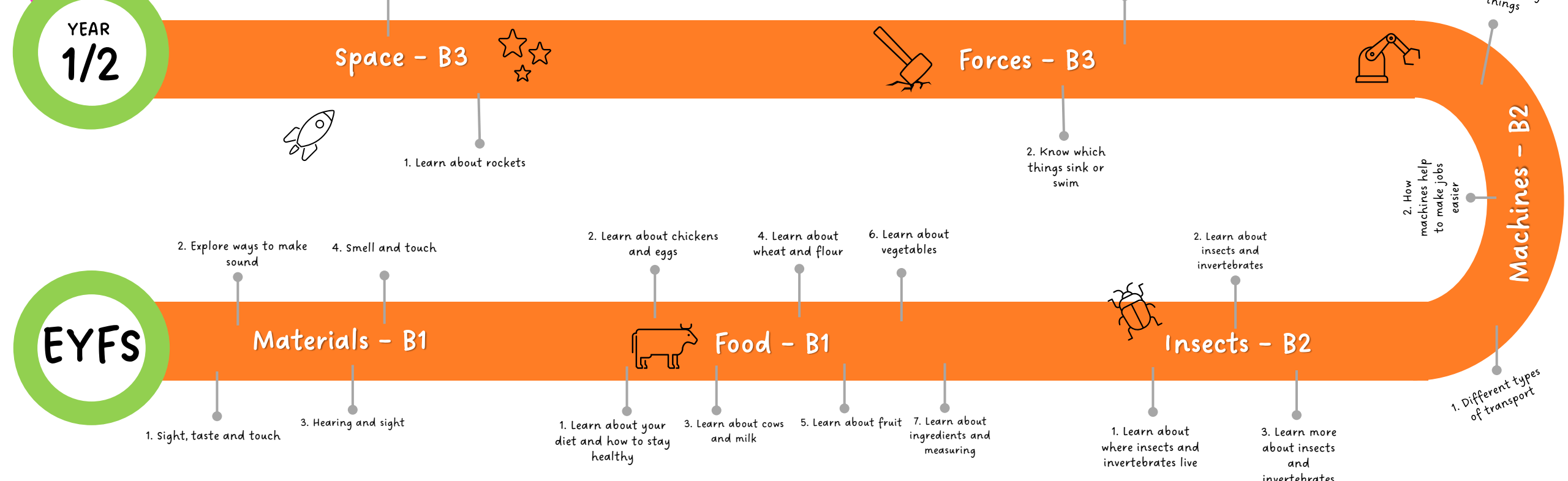
YEAR
5/6



YEAR
3/4



YEAR
1/2



EYFS