





What is the structure of the lungs? What is gas exchange? How does exercise affect breathing? What are some diseases that affect breathing?

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**Cell division** Why and how do cells divide? What is differentiation? What are stem cells?

#### Inheritance and evolution

Why do we look like our parents? What is DNA? How are organisms adapted? What is natural selection? How can we prevent extinction?

#### Adaptations, interdependence and competition

What do organisms compete for? How do adaptations relate to their function? How do abiotic factors affect distribution?

YEAR



## How do plants make food? How does light intensity affect rate of photosynthesis?



Systems to cells

What is inside cells? How do we observe cells?

#### Respiration

What is the difference between aerobic and anaerobic respiration? What is fermentation?

### Ecology

How are materials cycled? What are pyramids of numbers and biomass? How are organisms randomly sampled?

YEAR



Digestion What makes up our food? How do we test food? How is food digested? How does lifestyle influence health?

Reproduction How do humans reproduce? How do plants reproduce?



# Interdependence and variation

How are organisms classified? What is the difference between continuous and discontinuous variation?

