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Investigate the ethical issues of human intervention in the process of evolution by natural selection.	Explain in simple terms what genes and DNA are.
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Strand: Physics
Recognise that light travels in straight lines.
Describe how light enables us to see.
Understand reflection as light bouncing off a surface.
Identify the angles of incidence and reflection.
Understand refraction as light bending or changing direction.
Explain how a prism allows us to see the visible spectrum.
Explain how light enables us to see an object reflected in a mirror.
Recognise that the angles of incidence and reflection are equal.
Explain how light is refracted as it travels through glass or water.
Know the main circuit symbols and use these to draw circuit diagram.
Explain how our understanding of electricity has changed over time.
Draw circuit diagrams using the correct symbols and label the voltage correctly.
Explain the effect of increasing or decreasing the voltage on different parts of a circuit.
Understand forces: push and pull- interaction between 2 objects
Forces are needed to cause objects to stop and start
Strand: Chemistry
Predict what will happen in an investigation.
Be able to plan and conduct an investigation.
Plan an investigation based on the results of a previous investigation.
Decide how to record data.
Make observations.
Take accurate measurements.
Record results.
Make conclusions.
Be able to answer questions based on their learning.
Decide on the most appropriate type of investigation for their question.
Take repeat readings if necessary.
Report the degree of trust they have in their results.
Decide which variables to control while planning an investigation.
Make and explain predictions.
Identify and explain the variables they will control in an investigation.
Choose the most appropriate graph to present their data.
Make and record accurate observations.
Use scientific language to explain their findings.
Be able to ask and answer questions based on their learning using scientific language.
Understand different states of materials during investigations e.g. solid, liquid, gas
Understand concept of dissolving
Understand the change in state from freezing to melting to evaporation