Inheritance and evolution: Learning Journey

What are we learning about?

In this topic we are going to look at Inheritance and evolution, and how we inherit characteristics from our parents. We will also learn about how other organisms reproduce, cloning, genetic engineering and the theory of evolution by natural selection

Why are we learning about it?

To understand how humans and other species have evolved to be like they are today. As well as knowing why each of us have our own unique characteristics and to make us more knowledgeable about genetic disorders that could impact us at present or in the future

What new **KNOWLEDGE** will I gain?

The different ways of reproducing, how genetics is are passed on, the impacts of genetic disorders and their treatment , what genetic engineering/GM is and how it is done, how natural selection leads to new species and what evidence we have for evolution

How does this build on the **KNOWLEDGE** I already have?

In KS3 you learnt the basics of how we inherit characteristics from our parents and evolution but did not go deeper into genetic disorders or how new species arise. This topic will also build on your knowledge of climate change and will build on that diving into how humans are causing the extinction of species.

What new **SKILLS** will I develop?

A lack of understanding surrounding genetic engineering and evolution can be dangerous and can hold back the development of new technologies that can help humanity as well as other species. This topic will give you the skills to promote the usefulness of GM and cloning technologies as well as promoting awareness of what steps to take to help endangered species. In addition, it will provide you with skills to help you deal with genetic disorders and how to test for them

How does this build on the **SKILLS** I already have?

The basics passing on traits from parents to children and that different species have different traits is something we all learnt early in our lives, and this topic will give you the skills to consolidate that vital knowledge and apply it to the world around us.