|  |  |  |
| --- | --- | --- |
| St Julie Catholic Primary School – Science | | |
| Topic: What is evolution & inheritance? | Year: 6 | Strand: Biology |



Sticky Knowledge

* To describe how plants & animals evolve
* To identify scientific theories
* To explain how to investigate genetic characteristics
* To know how to draw charts or diagrams as a result of an investigation
* To explain how a fossil is formed

What will I learn during this topic?

1. I can recognise scientific ideas about evolution & inheritance.
2. I can recognise the work of Charles Darwin.
3. I can explain how species evolve.
4. I can investigate evolution & natural selection in plants or animals.
5. I can explore genetics.
6. I can plan an investigation.
7. I can explore the use of cladograms in an investigation.
8. I can explain how fossils are formed.

|  |  |
| --- | --- |
| Vocabulary | |
| Evolution | Biological evolution is a scientific explanation for why there are so many different kinds of organisms on Earth and gives an account of their similarities and differences. |
| Inheritance | Is the process by which genetic information is passed on from parent to child. This is why members of the same family tend to have similar characteristics. |
| Natural selection | Natural selection is the process where organisms with favourable genes are more likely to reproduce. In doing so, they pass on these genes to the next generation. |
| Genetics | Is a branch of biology concerned with the study of genes, genetic variation, and heredity in organisms. |
| Fossils | Are the mineralized or otherwise preserved remains or traces of organisms. |

What should I already know?

* describe the changes as humans develop to old age.
* describe in simple terms how fossils are formed when things that have lived are trapped within rock

Scientific skills

* Planning investigations & taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
* recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago