

# Leintwardine Endowed CE Primary School Learning Journey Key

'Letting Our Light Shine'

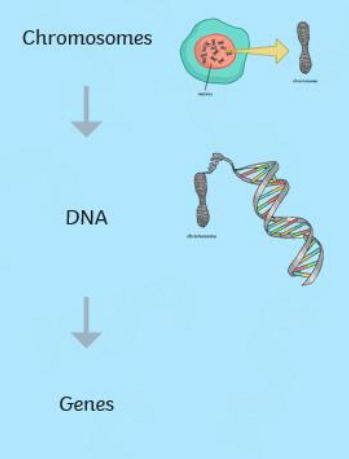
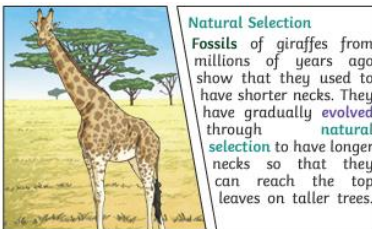


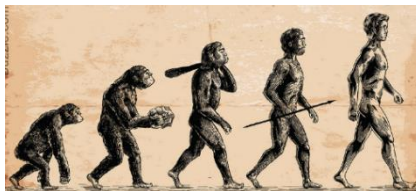
SUBJECT : Science

YEAR : B

TERM : Spring 2

YEAR GROUPS : 5/6

**Key Question: How have living things changed over time?**

| Question                                                                                                                                                                                                                                                             | Vocabulary to Use                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Information which will help me                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Can I....?                                                                                                                                                                                                                                                                                                                                                   |         |                 |            |        |                                                     |       |        |                                                         |        |        |                              |        |            |                                                             |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|------------|--------|-----------------------------------------------------|-------|--------|---------------------------------------------------------|--------|--------|------------------------------|--------|------------|-------------------------------------------------------------|--|
| <p>What is the scientific concept of inheritance?</p> <p>What is the scientific meaning of adaptation?</p> <p>What are the key ideas of the theory of evolution?</p> <p>What evidence is there of the evolution of plants?</p> <p>How have human beings evolved?</p> | <p>Cells, chromosomes, DNA, genes, genetics, geneticists, characteristics, inherit, inheritance, adaptation, nucleus, mitochondria, genome, variation, parents, offspring, inherited characteristics, acquired characteristics, mutations, random mutations, replicates, adaptive traits, environment, habitat, Charles Darwin, adaptive trait, natural selection, inherited trait, fossils, fossilisation, transitional forms, common ancestors, species, taxonomy.</p> |                                                                                                                                                                      | <p>The nucleus of a cell contains chromosomes, made up of DNA.</p> <p>DNA carries the characteristics that we inherit.</p> <p>Genes are short sections of DNA that contain specific</p>                                                                                                                                                                                                                                                                                                                                                                                  | <p>...identify inherited characteristic that are passed on from parent to offspring?</p> <p>...demonstrate understanding of the scientific meaning of adaptation?</p> <p>...identify the key ideas of the theory of evolution?</p> <p>...examine the evidence demonstration how plants have evolved?</p> <p>...understand how human beings have evolved?</p> |         |                 |            |        |                                                     |       |        |                                                         |        |        |                              |        |            |                                                             |  |
| <p>How has human intervention affected evolution?</p>                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                     | <div style="display: flex; justify-content: space-around;"> <div> <p><b>Inheritance</b></p> <p>These are characteristics that offspring inherit from their parents.</p>  </div> <div> <p><b>Adaptation</b></p> <p>These are characteristics that are influenced by the environment the living thing lives in.</p>  </div> </div> | <p>...explain how adaptations can result in both advantages and disadvantages?</p> <p>...explain how human intervention affects evolution?</p>                                                                                                                                                                                                               |         |                 |            |        |                                                     |       |        |                                                         |        |        |                              |        |            |                                                             |  |
|                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  <p>The crux of Darwin's Theory of Evolution focuses on the elimination of inferior species gradually over time, through a process called 'Natural Selection'.</p> | <table border="1"> <thead> <tr> <th>Living Things</th> <th>Habitat</th> <th>Adaptive Traits</th> </tr> </thead> <tbody> <tr> <td>polar bear</td> <td>arctic</td> <td>Its white fur enables it to camouflage in the snow.</td> </tr> <tr> <td>camel</td> <td>desert</td> <td>It has wide feet to make it easier to walk in the sand.</td> </tr> <tr> <td>cactus</td> <td>desert</td> <td>It stores water in its stem.</td> </tr> <tr> <td>toucan</td> <td>rainforest</td> <td>Its narrow tongue allows it to eat small fruit and insects.</td> </tr> </tbody> </table>    | Living Things                                                                                                                                                                                                                                                                                                                                                | Habitat | Adaptive Traits | polar bear | arctic | Its white fur enables it to camouflage in the snow. | camel | desert | It has wide feet to make it easier to walk in the sand. | cactus | desert | It stores water in its stem. | toucan | rainforest | Its narrow tongue allows it to eat small fruit and insects. |  |
| Living Things                                                                                                                                                                                                                                                        | Habitat                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Adaptive Traits                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                              |         |                 |            |        |                                                     |       |        |                                                         |        |        |                              |        |            |                                                             |  |
| polar bear                                                                                                                                                                                                                                                           | arctic                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Its white fur enables it to camouflage in the snow.                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                              |         |                 |            |        |                                                     |       |        |                                                         |        |        |                              |        |            |                                                             |  |
| camel                                                                                                                                                                                                                                                                | desert                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | It has wide feet to make it easier to walk in the sand.                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                              |         |                 |            |        |                                                     |       |        |                                                         |        |        |                              |        |            |                                                             |  |
| cactus                                                                                                                                                                                                                                                               | desert                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | It stores water in its stem.                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                              |         |                 |            |        |                                                     |       |        |                                                         |        |        |                              |        |            |                                                             |  |
| toucan                                                                                                                                                                                                                                                               | rainforest                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Its narrow tongue allows it to eat small fruit and insects.                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                              |         |                 |            |        |                                                     |       |        |                                                         |        |        |                              |        |            |                                                             |  |

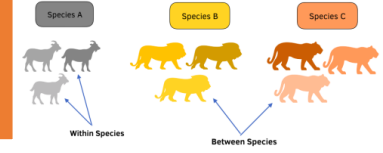


Fig 1. Types of Variation. Variation can occur both within and between species.

