**UNIT “G”**

**Diversity and Evolution of Organisms**

1. Make observations of fossil samples in varying layers of the Earth.
2. Compare and contrast various species from around the world and explain their diversity.
3. Create a timeline that reflects the appropriate adaptations for a given species in its environment.
4. Fossil evidence supports the scientific theory of evolution and that organisms evolved from earlier species.
5. Genetic variations and environmental factors contribute to evolution of organisms.
6. The inability of a species to adapt within an environment can contribute to the extinction of that species

**KNOW**

*Students will know and describe that:*

SC7. L.15.1 - Recognize that fossil evidence is consistent with the scientific theory of evolution that living things evolved from earlier species.

SC7. L.15.2 - Explore the scientific theory of evolution by recognizing and explaining ways in which genetic variation and environmental factors contribute to evolution by natural selection and diversity of organisms.

SC7. L.15.3 - Explore the scientific theory of evolution by relating how the inability of a species to adapt within a changing environment may contribute to the extinction of that species.

*State Standards:*

**DO**

*Skills that the students can demonstrate are*

**Vocabulary:**

fossils, evolution (scientific theory of evolution), genetic variation, species, natural selection, diversity, adaptation, extinction

***Essential Question***

The scientific theory of evolution is supported by fossil evidence. Natural selection, along with genetic variation, are primary mechanisms leading to change over time in organisms. These adaptations determine the survival or extinction of the species

LEARNING LEVELS

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|  | **LEVEL 4**  *Expert* | I can discuss and explain the main ideas with others |
|  | **LEVEL 3**  *Meeting the*  *Goal* | I can explain key ideas and give evidence from the text to support my claims |
|  | **LEVEL 2**  *Almost*  *There* | I can recognize key ideas |
|  | **Level 1**  *Getting Started* | With help, I can define the vocabulary |

What level are you currently at?

What will you have to do to reach the next level?

Are you willing to do it?

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| --- | --- | --- |
| What do I Know | What do I Want to Know | What did I Learn |
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