**REINFORCEMENT ACTIVITIES**

**Subject:** Natural Sciences and Environmental Education  **Grade:** 9th  **Period:** III  **Year:** 2024

**SUGGESTION**

*Each period, the teacher formulates a problematizing question or situation related to the learning goals that help the student to train him/herself and get ready to prove his/her knowledge and proficiency levels in each area. This process is scheduled for the week in august from 20th to22nd and august from 26th to 29th. The student should consult the bibliographic references cited by the teacher and turn in three academic products for the period written with basic standards to give account for the skills acquired.*

1. **Problematizing question:**

* How does DNA information and the environment influence biodiversity?

1. **Learning Goals:**

* To develop and use a model to describe how genetic variations of traits in a population increase the probability of some individuals surviving and reproducing in a specific environment.
* To analyze and interpret data from the fossil record patterns that document the existence, diversity, extinction and change of life forms throughout the history of life on Earth under the assumption that natural laws operate today as in last.
* To apply scientific ideas to construct an explanation for the similarities and anatomical differences between modern and fossil organisms to infer evolutionary relationships, generating a broader thought about their role as an animal in nature.

1. **Conceptual domains and content:**

* What is DNA and RNA?
* Types of RNA and their functions.
* Protein synthesis: transcription and translation processes.
* Human genome.

1. **Bibliographic references:**

* BBC. (2018). Variation - Inheritance - AQA Synergy - GCSE Combined Science Revision - AQA Synergy. BBC Bitesize. https://www.bbc.co.uk/bitesize/guides/ztwdgdm/revision/7
* BYJUS. (2021). Mendel’s Laws of Inheritance. https://byjus.com/biology/mendel-laws-of-inheritance/#:%7E:text=Mendel%27s%20laws%20of%20inheritance%20include,passed%20on%20to%20the%20offspring .
* Ospina, J. (2022). *Guía de Ciencias Naturales 9°*. Unit 3.
* ThoughtCo. (2020). *Do You Know the Differences Between DNA and RNA?* <https://www.thoughtco.com/dna-versus-rna-608191>.