



Workshops on Deck - Summer T-STEM Leadership Institute . June 18, 2015
Join the conversation at <http://padlet.com/kenyawilson/hlo75fxfgs3f>

5.9- Organisms and environments. The student knows that there are relationships, systems, and cycles within environments. The student is expected to

5.9A- Observe the way organisms live and survive in their ecosystem by interacting with the living and non-living elements. (R)

5.9C- Predict the effects of changes in ecosystems caused by living organisms, including humans, such as the overpopulation of grazers or the building of highways. (S)

PBL workshops should address the following questions.

- What are organisms?
- How do organisms live and survive in their ecosystem? How do they interact with living and non-living elements?
- Define biotic and abiotic. Provide examples of each.
- How do abiotic changes affect biotic organisms?
- What is an ecosystem? What are the primary characteristics of various ecosystems?
- How does an ecosystem differ from an environment?
- What factors affect the diversity of an ecosystem?
- Identify some living and non-living components of various ecosystems.
- How do populations differ from communities?
- Give examples of how an increase/decrease in population of one organism affects the population of another organism in its community.
- Habitat, niche, population, community, ecosystem, environment. Use one image to represent and identify each of these terms.
- Define diversity. Which ecosystems have the greatest or least diversity? What abiotic factors affect diversity? Give examples of how changes in ecosystems affect diversity.
- Define succession and extinction
- How do volcanos, droughts, storms, and mudslides affect ecosystems?
- Explain how invasive species affect environments.
- How has our environment changes with the constructive of more highways and homes?