



Planning the inquiry

3. How might we know what we have learned?

This column should be used in conjunction with “How best might we learn?”
What are the possible ways of assessing students’ prior knowledge and skills?
What evidence will we look for?

Use four corners activity to assess what students know regarding ecosystems and habitats

What are the possible ways of assessing student learning in the context of the lines of inquiry? What evidence will we look for?

Through student inquiries, science experiments, research journals, we will assess students ability to:

- describe the difference between Earth’s systems
- Explain how ecosystems are affected by human actions
- Name and describe the characteristics of the different biomes
- Identify and compare physical traits of animals and plants in the different ecosystems
- Student generated Kahoot quizzes
- Explain the difference between a food chain and a food web.
- Explain the role of producers and consumers in food chains and webs.

4. How best might we learn?

What are the learning experiences suggested by the teacher and/or students to encourage the students to engage with the inquiries and address the driving questions?

1. Teacher/students will research and discuss the effects of invasive species on an ecosystem
2. Students/teacher will investigate the differences in habitats and biomes and relationships between plants and animals..
3. Students will work in a cooperative group to write songs/poem/skit about any of the Earth’s systems.
4. Students will discuss how natural resources are important in order to survive on Earth and will investigate how man’s impact on the land interrupts habitats.

What opportunities will occur for transdisciplinary skills development and for the development of the attributes of the learner profile?

Research Skills: Formulating questions, collecting, recording, organizing, and presenting data as students: research different weather conditions and their causes and effects on land formations, chemical and physical changes, and different cycles.

Self-management: time management and organization as students research and work on their habitats, posters, and presentations.

Communication Skills: listening, speaking, reading, writing, and presenting as students present their findings on different research topics related to Earth’s systems, biomes, ecosystems, habitats, invasive species.

Learner Profile: Caring, Inquirers, Knowledgeable

Attitudes: creativity, and enthusiasm

Students will demonstrate these Attitudes and Learner Profile as they learn about weather, chemical and physical changes, cycles, or landforms.

5. What resources need to be gathered?

What people, places, audio-visual materials, related literature, music, art, computer software, etc, will be available?

Science Books, articles, magazines library books, internet: Brain pop, NEO K-12, SEED kits, movies, DVD’s HB Science textbook, technology, Newsela

How will the classroom environment, local environment, and/or the community be used to facilitate the inquiry?

Technology lab/ chromebooks for research, Astrocamp,

The classroom will be set-up in a way conducive to cooperative exploration and experimentation.

Students will be given the opportunity to work independently and in collaborative groups.