J 3

PA Reporting Category: Biological Sciences

PA Academic Standards:

• Science and Technology and Engineering Education 4.7.4.B

Assessment Anchor: S4.B.2 – Continuity of Life

Descriptor: S4.B.2.1 Identify and explain how adaptations help organisms to survive.

Eligible Content: S4.B.2.1.1 Identify characteristics for plant and animal survival in different environments (e.g.,

wetland, tundra, desert, prairie, deep ocean, forest).

Alternate Eligible Content Code: S4B2.1.1a

Alternate Eligible Content: Identify plants or animals that live in different environments (limited to grasslands, tundra, desert, aquatic forest, and rainforest)

uesert, aqua	desert, aquatic, forest, and rainforest).						
Alternate Eligible Content - Coded							
Know			DO	Context			
Plants OR Animals			Identify	That live in different environments (limited to grasslands, tundra, desert, aquatic, forest, and rainforest).			
Intent Statement	Determine plants or animals that live in different places (e.g., cactus lives in deserts, fish lives in water, bear lives in forest, reindeer lives in tundra).						
Definition Notes	 Environment – the circumstances, objects, or conditions by which one is surrounded Grassland – an ecological community in which the characteristic plants are grasses Tundra – a level or rolling treeless plain that is characteristic of arctic and subarctic regions, consists of black mucky soil with a permanently frozen subsoil, and has a dominant vegetation of mosses, lichens, herbs, and dwarf shrubs; also: a similar region confined to mountainous areas above timberline Desert – arid land with usually sparse vegetation; especially: such land having a very warm climate and receiving less than 25 centimeters (10 inches) of sporadic rainfall annually Aquatic – growing or living in or frequenting water Forest – a dense growth of trees and underbrush covering a large tract Rainforest – a tropical woodland with an annual rainfall of at least 100 inches (254 centimeters) and marked by lofty broad-leaved evergreen trees forming a continuous canopy —called also tropical rain forest 						

Definitions from https://www.merriam-webster.com/dictionary/

Most Complex Content Level

Content Target: Given tundra and desert definitions, select the plants that grow and thrive in these environments.

Example:



- Here are some plant names.
- Select the plants that grow in tundras and list them under the heading "Tundra".
- Select the plants that grow in deserts and list them under the heading "Desert". Remember there may be some that do not belong in either category.

PLANTS					
Arctic moss	Cactus	Banana			
[1]					
Palm Tree	Apple tree	Sage brush			

Arctic Tundra	Desert

Mid-Complex Content Level

Content Target: Given Forest and Aquatic definitions/descriptions and visuals/objects, select the animals that live in each respective place.

Example:

- Use a picture of a forest familiar to the student (if available).
- Use a picture of a natural water environment familiar to the student (if available).





Aquatic: Living in water.

Forest: Lots of trees, bushes, and plants growing together in a large, shaded area.

- Select the animals from the box below and place them in the correct column under the environment (place) **IN** which they live.
- Make choices of animals that are familiar/meaningful for the student. Add one choice that doesn't belong.

Animals













Forest	Aquatic (water)

Least Complex Content Level

Content Target: Given an environment that is meaningful and familiar to the student, select the animals that make their home there.

Example:

- Uses pictures/objects and environment representations that are meaningful to the student.
- Which animals live in the water?







