

Formative Assessment #1

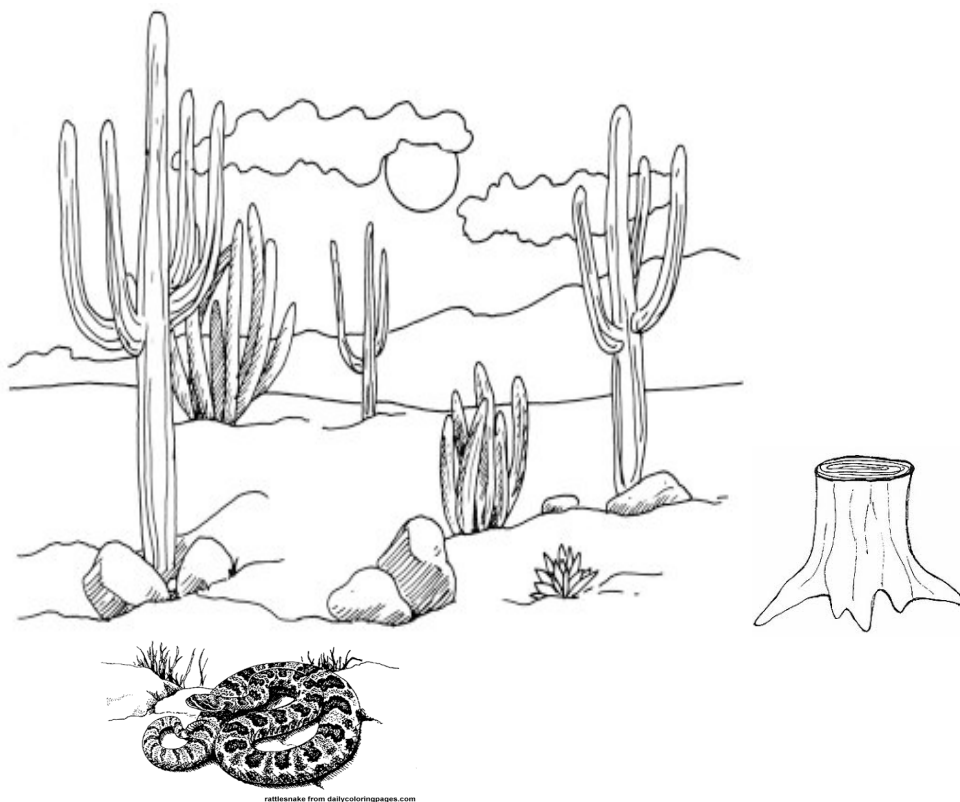
Concept(s) Assessed	Ecosystems are made of abiotic and biotic components that interact with each other.
Time	10 minutes
Materials	<u>Individual</u> Prompt
Advance preparation	1. Duplicate prompt for each student

Procedure:

1. Tell students they will have an opportunity to share what they understand about abiotic and biotic factors.
2. Distribute the prompt to each student and ask him/her to do his/her best work.

Name _____

PROMPT



1. Carefully observe the drawing. List **ALL** of the biotic and abiotic components of this desert biome:

BIOTIC COMPONENT	ABIOTIC COMPONENTS

2. Describe an interaction between one biotic and one abiotic component. Be sure to include how one depends on the other.

Formative Assessment #1

Expected Student Responses for a High Level Response

1. Correctly lists the biotic and abiotic factors.

BIOTIC COMPONENT	ABIOTIC COMPONENTS
Snake	Rock
Large cactus	Sand
Medium plant	Sun
Small plant	Clouds
Tree stump	mountain

2. Names biotic and abiotic components and describes an appropriate interaction between them.

Examples include:

- A snake (biotic) depends on a rock (abiotic) for shelter from the hot sun
- A cactus/tree (biotic) depends on the sand (abiotic) to anchor/hold it up/provide nutrients.
- A tree/cactus (biotic) depends on the sun (abiotic) for photosynthesis
- A tree/cactus/snake (biotic) depends on the clouds (abiotic) for rain/water.