

STEM Saturday

Problem Statement - Elementary Preservice and inservice Teachers need help with NGSS. BMS (Bristol-Myers Squibb Center) - Don't understand how to interact with younger - Want to be in-service with K-12.

- 6-12 is growing with project Sing & Wine Wednesday.
- Need to start to get traction in elementary.
- Part of the goals - serve both groups - preservice unprepared - content knowledge and only 1/2 methods course to teacher science. Bring up to speed on content. Inservice Teachers are low in content and science teaching strategies

3 LS4-2 - Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing.

3-LS4-2. Use evidence to construct an explanation for how the variations in characteristics among individuals of the same species may provide advantages in surviving, finding mates, and reproducing. [Clarification Statement: Examples of cause and effect relationships could be plants that have larger thorns than other plants may be less likely to be eaten by predators; and, animals that have better camouflage coloration than other animals may be more likely to survive and therefore more likely to leave offspring.]

SEP: Use Evidence to Construct an Explanation

CCC: Cause And Effect

DCI: LS4.B: Natural Selection

- Sometimes the differences in characteristics between individuals of the same species provide advantages in surviving, finding mates, and reproducing.

Book Connections:

The Reason for a Flower - Ruth Heller

Plant Secrets: Emily Goodman

Dandelion: Stars in the Grass

Phenomenon: The Differences in Petunia Plants

{Presented through a video/live plants: season dependant}



Previous Learning:

What is a plant?

What are the characteristics of a plant?

- Leaves
- Flowers

- Pollen
- Stem

What is the function of these characteristics?

Leaves: To taken in the sun to help the plant grow

Flowers: To draw in pollinators

Pollen: Reproduction

Stem: Elevate the leaves, fruit, and flower.

Transport fluids

New plant growth

Identify the differences in characteristics. Foldable: Draw three leaves that show differences. Bullet point of the differences (Size, color)

Why would plants on the same species have different characteristics?

- Reproduction
- Survival

Relationship between PE

Articulation/Discussion of K-2, 2-5.