



Katy Ayers - Mushroom Scientist - Kearney NE

Learning Goals

Generate a wide range of ideas for solving a problem or challenge. Evaluate different potential solutions and identify the steps necessary to implement an idea.



Design Challenge Resources

- ☐ Innovator Insights Video: Mushroom Scientist
- ☐ Word Wall Graphic Organizer
- ☐ Innovator Insights Collectors Card
- ☐ What If Graphic Organizer
- ☐ Notice/Wonder Graphic Organizer
- ☐ Synthesizing Ideas Graphic Organizer

Steps

1. Explore Key Questions for each video. Use those questions to engage before, during and after the videos.
2. Watch each video as a class, in small groups as a station, or individually.
3. Complete the innovator insights notes graphic organizer with key information about the innovator featured in the video.
4. Discuss in small groups or as a class:
 - a. The Type of Innovation
 - b. The Problem Being Solved
 - c. Who innovation helps
5. Write or record any additional questions you would like to ask the innovator.
6. Record the Insight Unlocked vocabulary words to the word wall document.
7. As an extension to the video, complete the **Ideation Design Challenge: Brainstorm!** from the innovator insights toolkit.

Key Questions

Before

- What is the first thing that comes to mind when you hear the word failure?
- What is something you made a big improvement in that made you proud of yourself?

During

- What are some things you are uncertain about?
- What does uncertainty mean to you?

After

- What is something you learned from by failing?
- How does failure help in the innovative process?

Vocabulary

Mycelium: A network of fungal threads that grow underground helping absorb nutrients for mushrooms.

Sustainability: A product or process designed to last over time without ill effects or compromise to its environment.

Insights Unlocked

- Sustainable Inventor**
- Networked Fungi**
- Organic Designer**

Career Field

Agriculture, Food and Natural Resources



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