

The Bio/Diversity Project
Lesson 7: Creating Student Posters

Grade Level: 4-12th

AZ Science Standard:	Cheat sheet for AZ science standards <i>HS.L4U1.27</i> <i>Obtain, evaluate, and communicate evidence that describes how changes in frequency of inherited traits in a population can lead to biological diversity</i>
Learning Objectives:	1. Students will synthesize data and observations into a research poster 2. Students will design visual and written content to communicate their findings 3. Students will prepare and finalize posters for sharing or presentation
Scientist of the Week:	 Dr. Michael Kotutwa Johnson Tribe: Hopi Works at University of Arizona ● Hopi farmer and scientist ● Studies how people can grow food in dry places, like the desert ● Uses traditional Hopi farming methods that don't need much water ● Teaches how Native knowledge protects the land

Vocabulary	Materials
- Scientific poster - Claim-Evidence-Reasoning - Scientific observation	- Printed student bar/pie charts from Lesson 6 - Printed bird pictures - Poster paper - Markers, glue sticks, scissors, colored paper and other poster-making supplies Poster Checklist handout
Guiding Questions: <i>What are the most important things you learned from our experiment?</i> <i>How can we use pictures and words to tell a clear story?</i> <i>What could you tell your friends and family about birds and biodiversity?</i>	

Lesson 7: Student Poster Creation

1. Introduction (5–10 minutes)

- Explain that students will be making posters to communicate what they've learned from the experiment.
- Show a sample student research poster.
- Hand out the Poster Checklist to each group.

2. Poster Creation (35–45 minutes)

In teams, students will:

- Add a Title
 - Create a clear, creative title.
- Attach Graph
 - Tape or paste the graph made in Lesson 6.
- Write a Claim-Evidence-Reasoning (CER) Statement
 - Claim: What trend or pattern does your graph show?

- Evidence: Reference your graph and data
 - Reasoning: Explain why this is important—what it tells us about birds and biodiversity.
 - Add Supporting Details
 - Include facts or findings from your work.
 - Add a drawing or printed photo of one of the birds you studied.
 - Use color, diagrams, and creativity to make the poster visually engaging.
-