

Infusing Literacy with PLTW Launch



Meet the Facilitators



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Agenda

- Welcome!
- Starting with STEM Activity
- What is STEM?
- Exploring ELA Strands
- Connecting STEM and Literacy Standards
- Showcase – Amy Magill
- Cross-Curricular Strategies
- Reflection, Q & A



Start with STEM! - Video

Watch: Animal Life
Cycles video



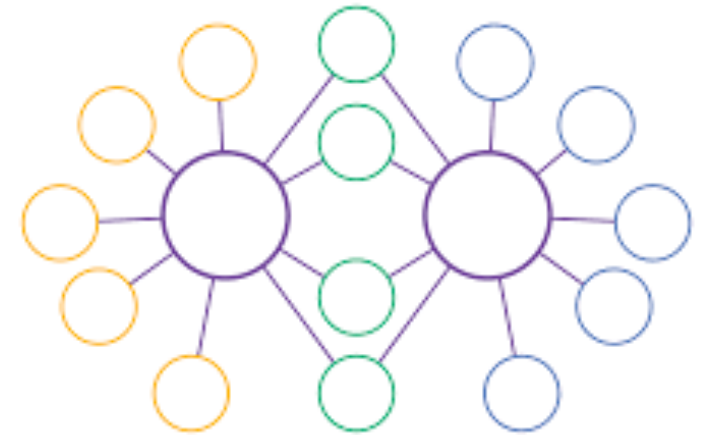
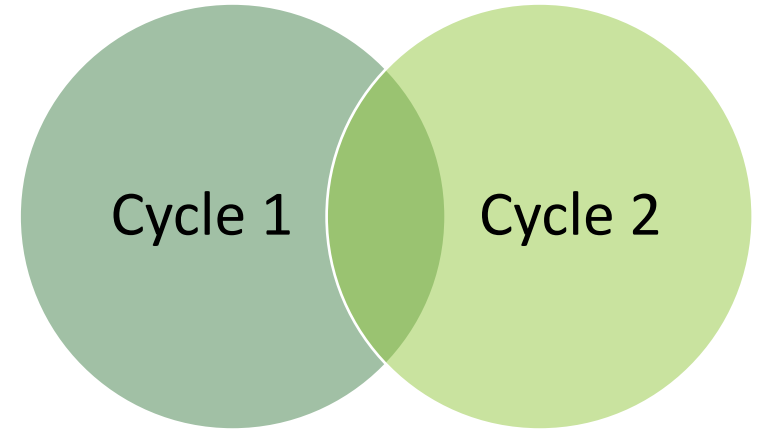
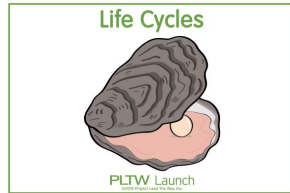
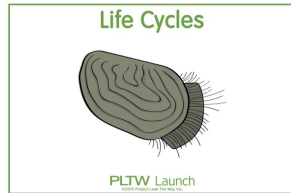
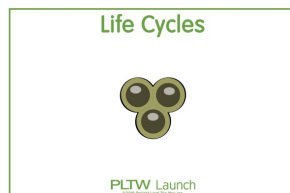
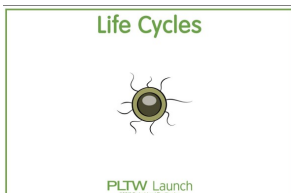
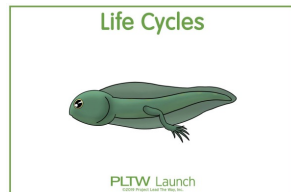
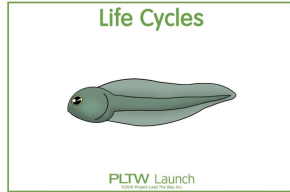
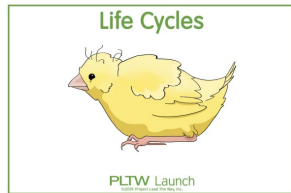
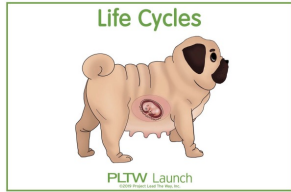
From 3rd grade PLTW
Launch module Life
Cycles and Survival



Start with STEM! – Life Cycle Cards



Start with STEM! – Group Work



Now what about literacy?

Think back to the STEM activity you just completed with animal life cycles. What ELA/Literacy skills did you use to complete the activity?

- Sequencing
- Listening
- Compare/Contrast
- Writing
- Communication



What is STEM?

- Science, technology, engineering, and math
- Building transportable skills
- Standards:
 - NGSS Science and Engineering Practices
 - CCSS Math Practices
 - CSTA Practices



ELA Strands

- **Literacy foundations** – print concepts, phonics, word recognition, fluency
- **Reading** – key ideas/details, craft and structure, knowledge and ideas, text complexity
- **Writing** – communicate clearly to an audience, production, research, text types
- **Speaking and listening** – comprehension, collaboration, presenting
- **Language** – conventions of standard English, knowledge of language, vocabulary



Connecting Literacy and STEM

Use different color highlighters to identify connections between ELA standards and STEM standards.

Reading Anchor Standard

Read closely to determine what the text says explicitly and to make logical inferences from it; **cite specific textual evidence** when writing or speaking to support conclusions drawn from the text.

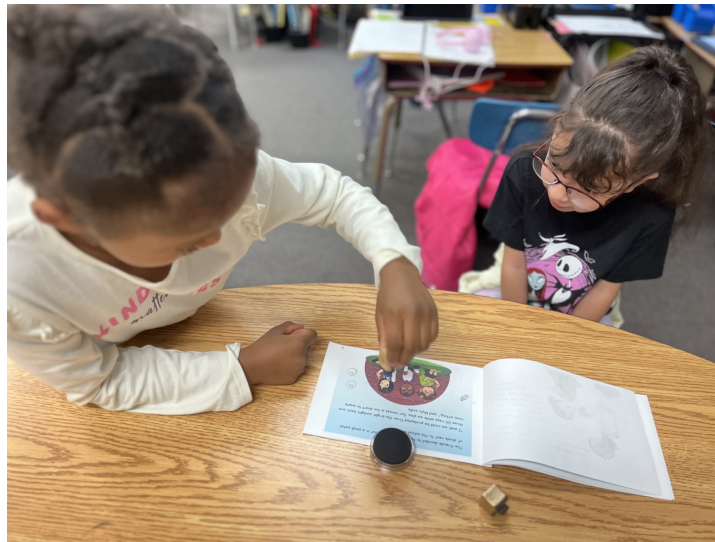
NGSS Performance Expectation

4-PS3-1 Energy

Use evidence to construct an explanation relating the speed of an object to the energy of that object

Showcase

Amy Magill



Showcase – Amy Magill



Light:
Observing the
Sun, Moon,
and Stars



Animated
Storytelling



Animal
Adaptations

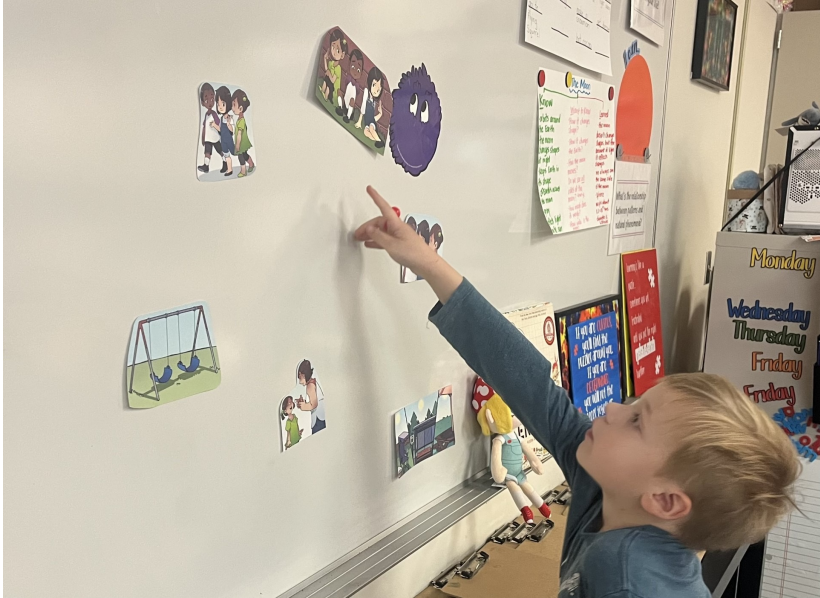


Designs
Inspired by
Nature

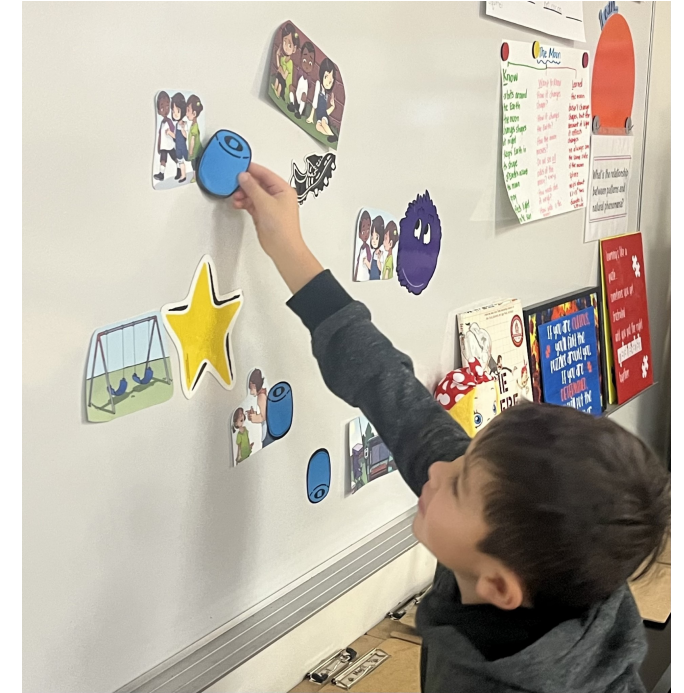


Light and
Sound

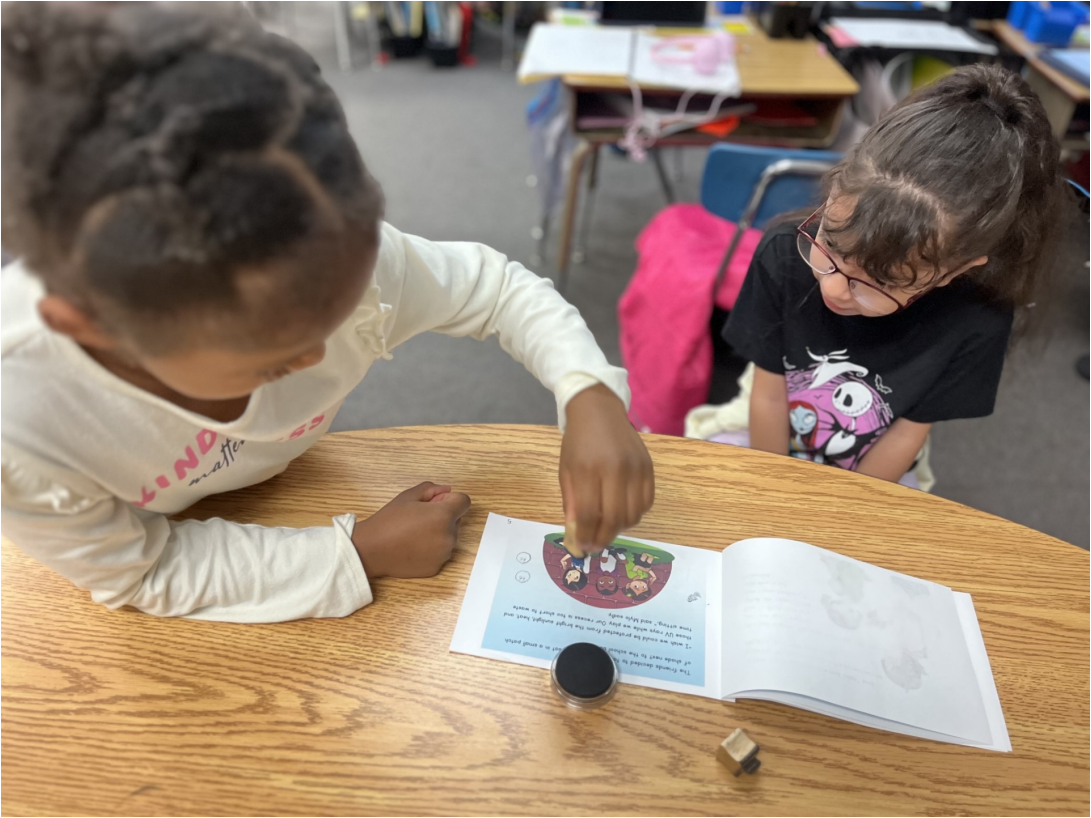
Showcase – Amy Magill



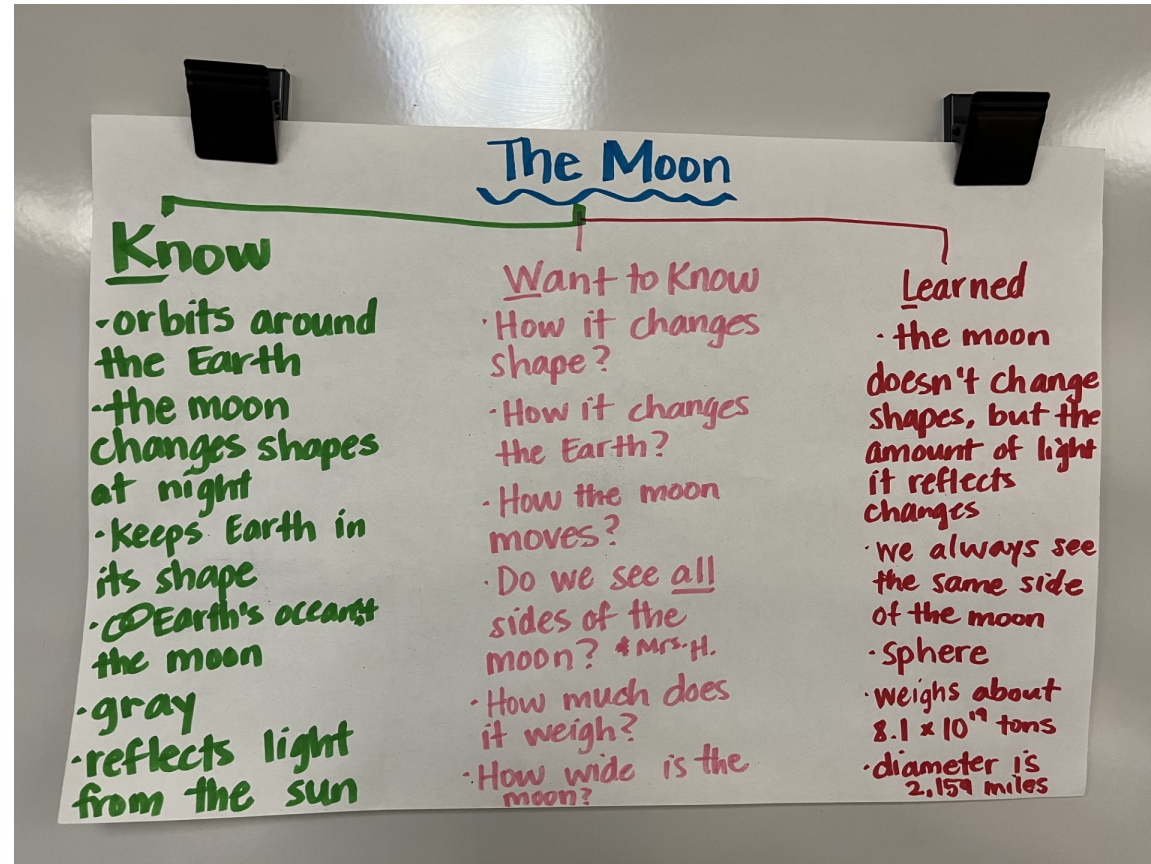
Showcase – Amy Magill



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Showcase – Amy Magill



Cross-Curricular Strategies

Strategy:

Guide students to create a chart or graph to present information.



Example Strategy at top of chart paper

Students could do this in Activity 2 Part 3. They could create a graph that shows the information.



Example sticky note to go with this strategy

Your Task:

- Review the APB overview for your Launch modules.
- Read the cross-curricular strategies on the chart paper around the room
- On a sticky note, write where in the module this strategy could be used and place it on the chart.

Q & A



Thank you for joining us!

