

# Observe, Wonder, Connect: Sensemaking with PLTW Launch

# Overview

- Welcome and Introductions
- Observe and Wonder
- Sensemaking: Making Connections
- Observe-Wonder-Connect in Your Classroom
- Reflection/Q&A



# Meet the Facilitators



**Ginger Teague**  
Senior Director of Instruction



**Jenni Kruse**  
Senior Instructional Developer





# Exploring Phenomena

Natural phenomena are observable events that occur in the universe and that we can use science knowledge and skills to explain.



# Observe-Wonder-Connect

Observe	Wonder	Connect

PLTW LAUNCH  
**ENERGY IS EVERYWHERE!**

# Observe and Wonder

- What did you observe in the video?
- How were the examples in the video similar? How were they different?
- What do you wonder after watching the video?





# Sensemaking: Making Connections

Now that students have started to think about the concepts for the unit of study, they are ready to engage in learning experiences designed to make sense of the phenomena or the concepts.





# Claims and Evidence

When students support their **claims** with **evidence**, they are more likely to build their understanding of science concepts in meaningful ways.

• CLAIMS AND EVIDENCE •

As you reflect on the observations you made, share your ideas as CLAIMS that you back up with EVIDENCE. What are claims and evidence?

**CLAIMS**  
statements about something that answer a question

**EVIDENCE**  
facts or observations that support the claim

I THINK MILK IS A LIQUID.

OBSERVATION  
When milk is poured out of a container, it takes the shape of the glass.

DATA

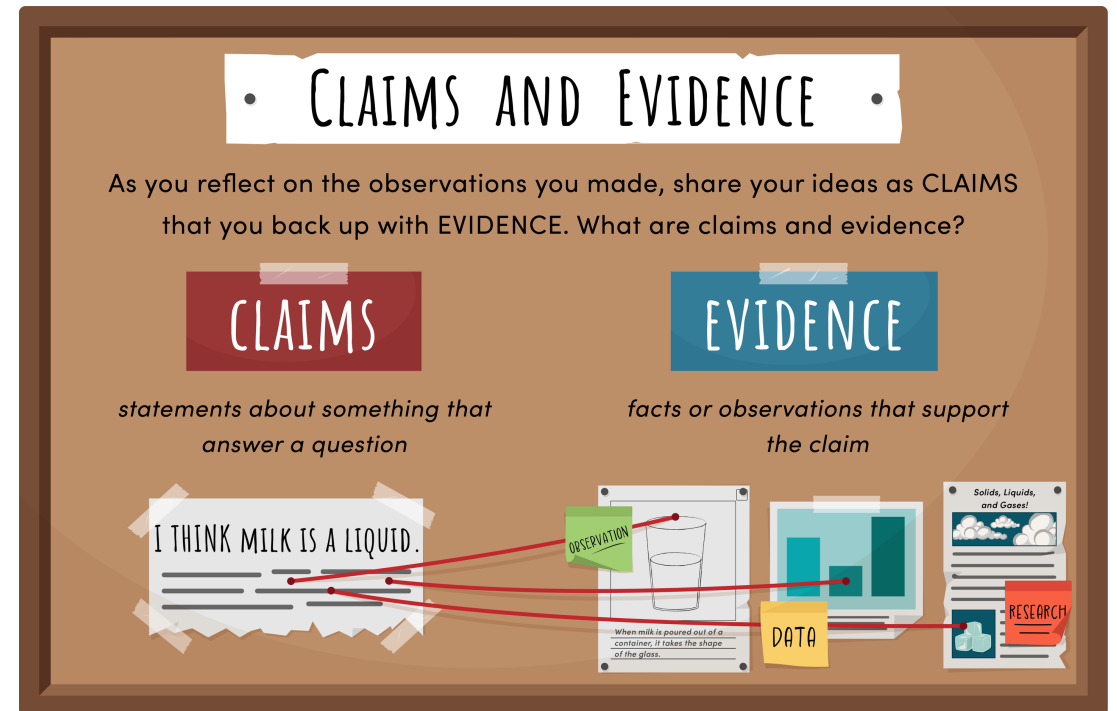
RESEARCH  
Solids, Liquids, and Gases!

The diagram illustrates the relationship between a claim and evidence. A central claim, "I THINK MILK IS A LIQUID.", is supported by three pieces of evidence: an observation of milk in a glass, a bar chart representing data, and research on the states of matter. Red lines connect the evidence to the claim.

# Claims and Evidence

If a student makes a statement, but does not support their claim with evidence, use the following questions to encourage the development of an evidence statement.

- Why do you think that?
- What have you seen or done that makes you think that?
- What evidence do you have that supports your claim?
- What else have you learned that makes you think that?



# Observe-Wonder-Connect in Your Classroom



**SPARKING  
CURIOSITY**

A PLTW Launch Conference

# Questions and Reflections



**SPARKING  
CURIOSITY**  
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