



The most beautiful thing we can experience is the mysterious. It is the source of all true ART and SCIENCE.

Albert Einstein >





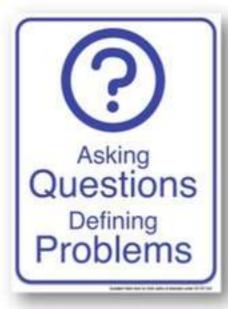
I Wonder

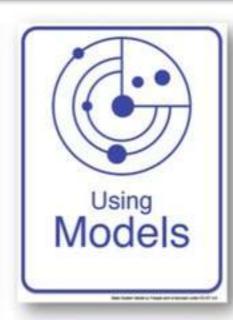


Session Targets:

- Identify student performance expectations in science.
- Use phenomena to help students ask questions.

Science and Engineering Practices

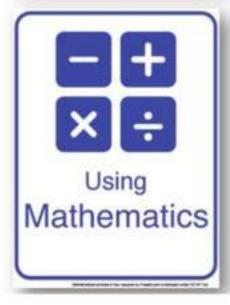








I can identify student performance expectations in science.











Science and Engineering Practices

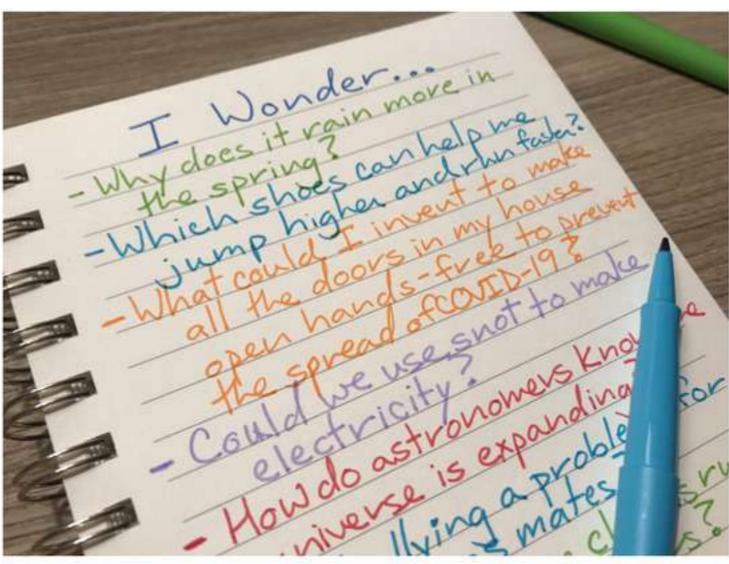


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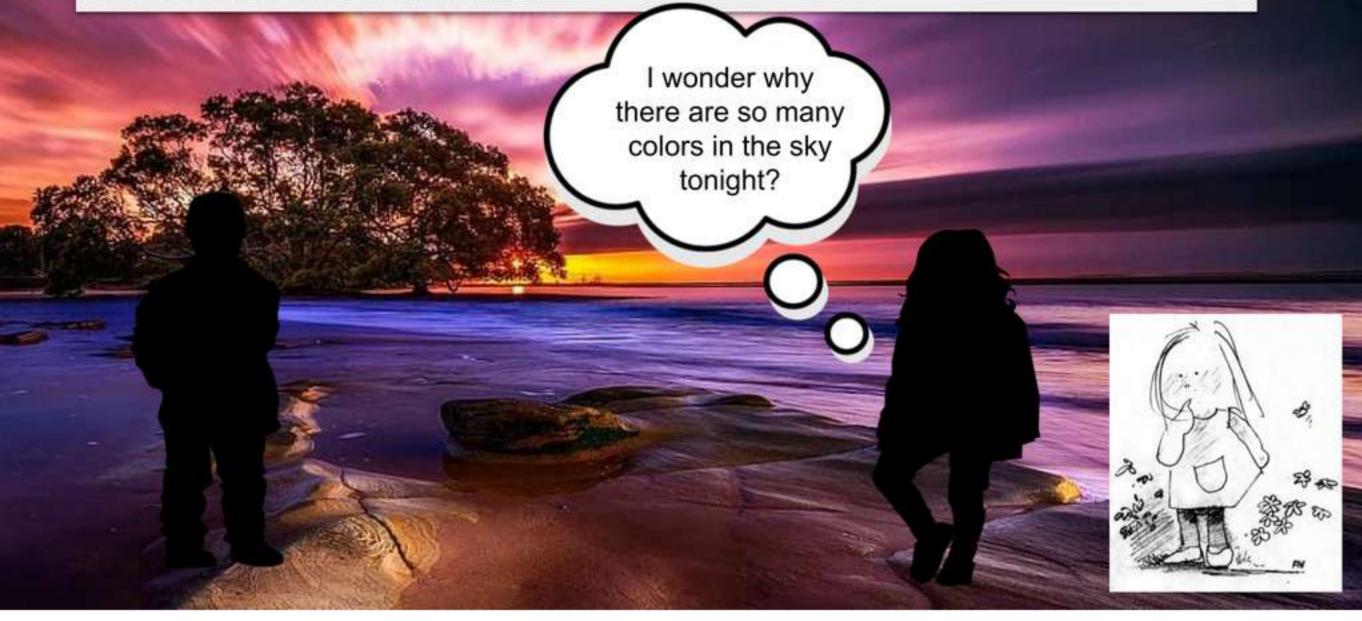


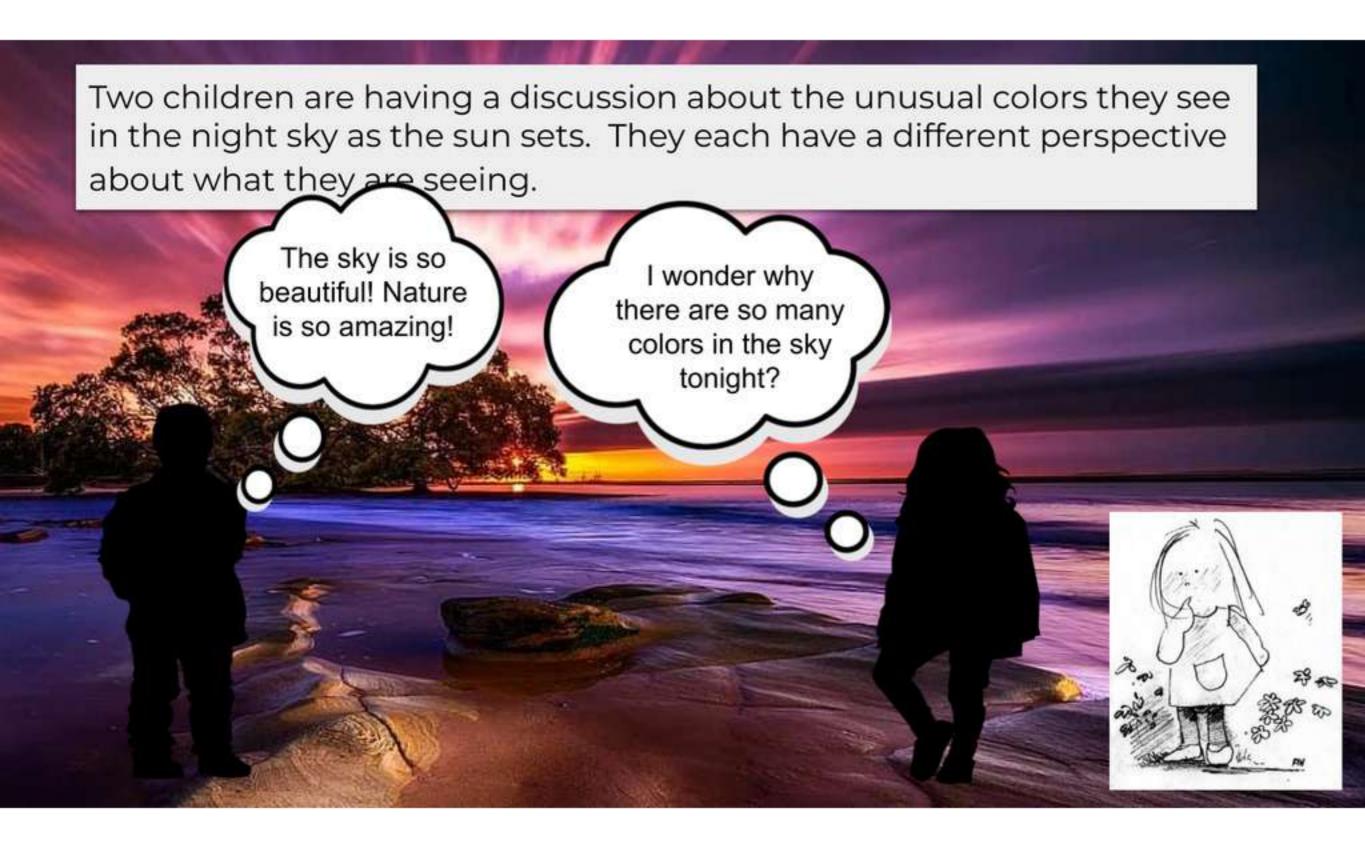


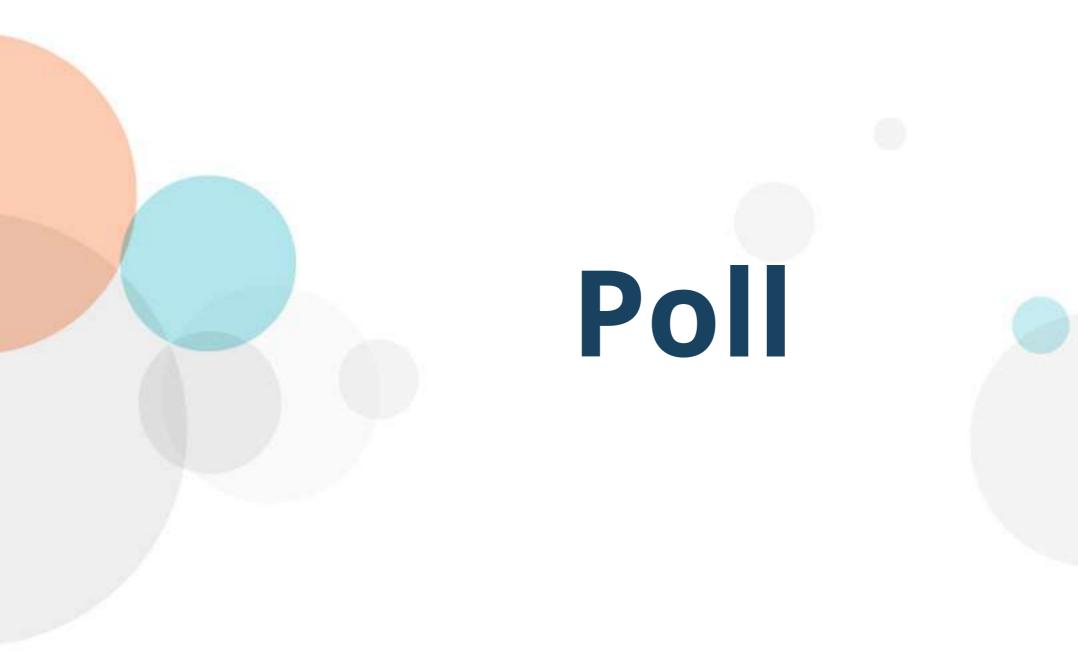
"I Wonder..." Challenge



Two children are having a discussion about the unusual color they see in the night sky as the sun sets. They each have a different perspective about what they are seeing.







Which student perspective aligns to the true definition of phenomena?

- "The sky is so beautiful! Science is so amazing!"
- "I wonder why there are so many colors in the sky tonight?"

What is phenomena?

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

The goal of building knowledge in science is to develop general ideas, based on evidence, that can explain and predict phenomena.

I can use phenomena to help students ask questions.





If phenomena evokes wonder,

how can you use it to make children question?

What do you notice in the image?



Draw It

What do you notice in the image?





Now, what do you notice in the image?



Draw It

Now, what do you notice in the image?



What do you WONDER about the image?





What connections can you make to these new images?

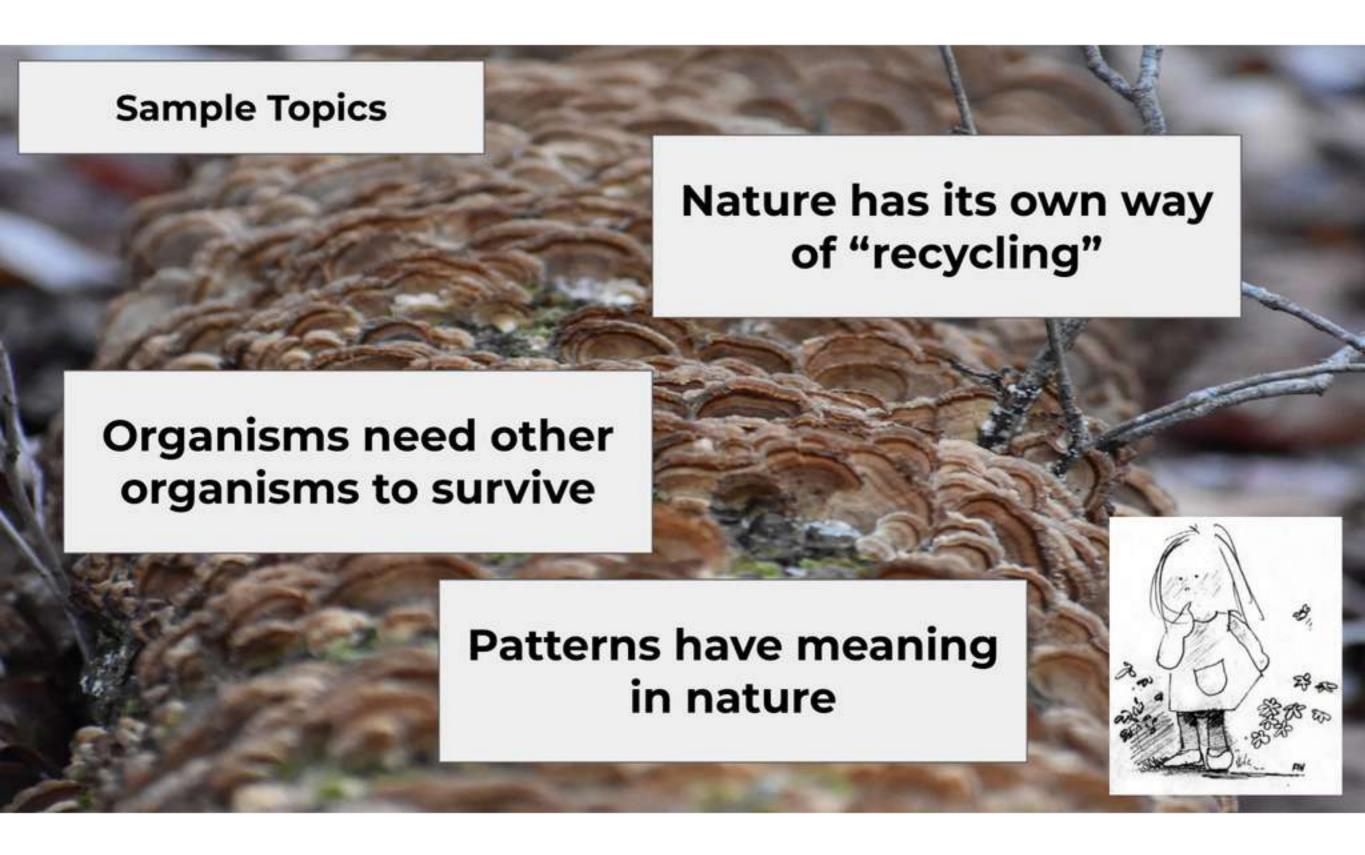
I can use phenomena to help students ask questions.



What questions do you think your children might pose about the images?

Collaborate Board

I Wonder Challenge



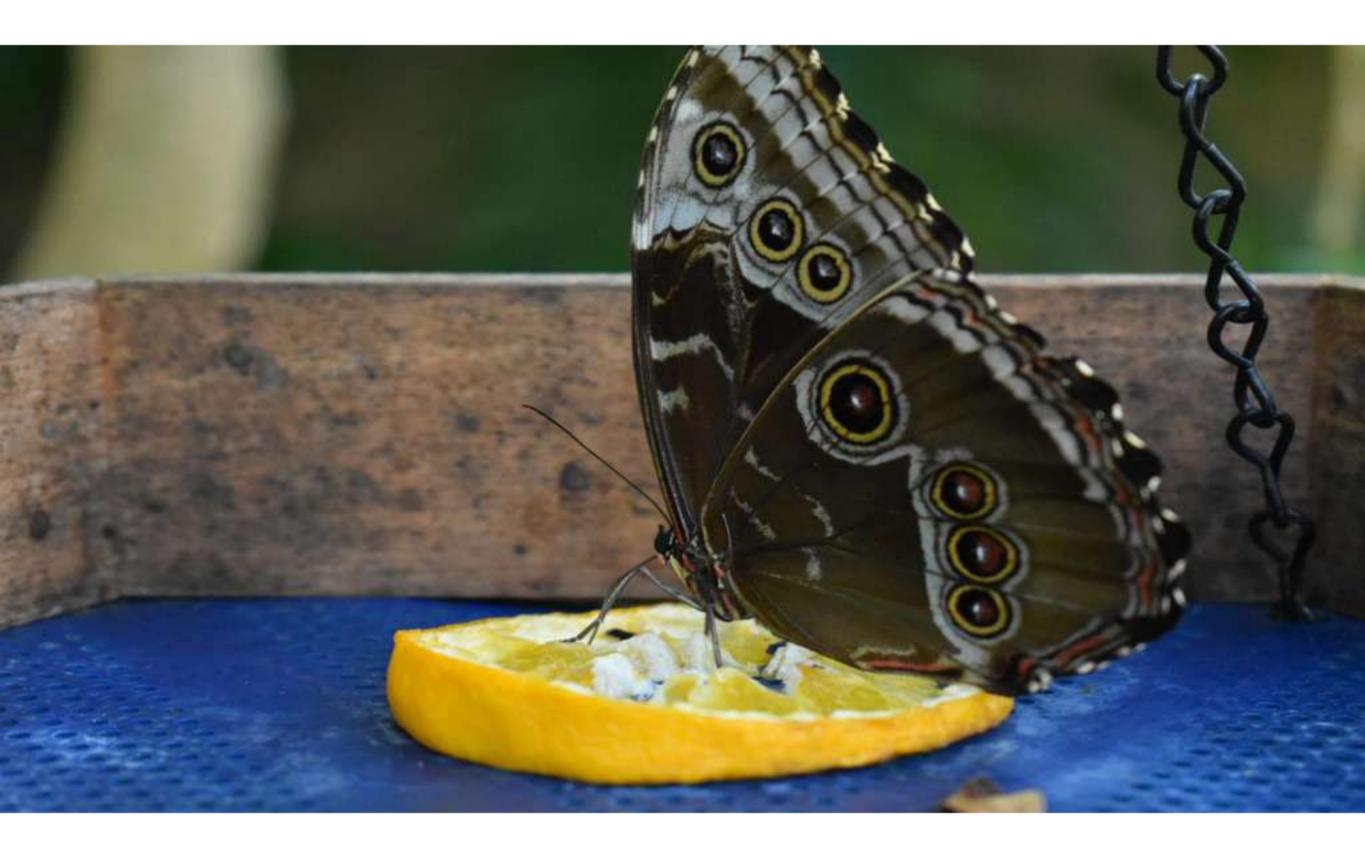


How can you do this:

- Have your camera ready for nature's gifts (they come when you least expect it.)
- Be sure to WONDER yourself.
- Research the science behind the wonder and take your students on the journey with you.

Here are few examples









Thank You!

- Identify student performance expectations in science.
- Use phenomena to help students ask questions.



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