

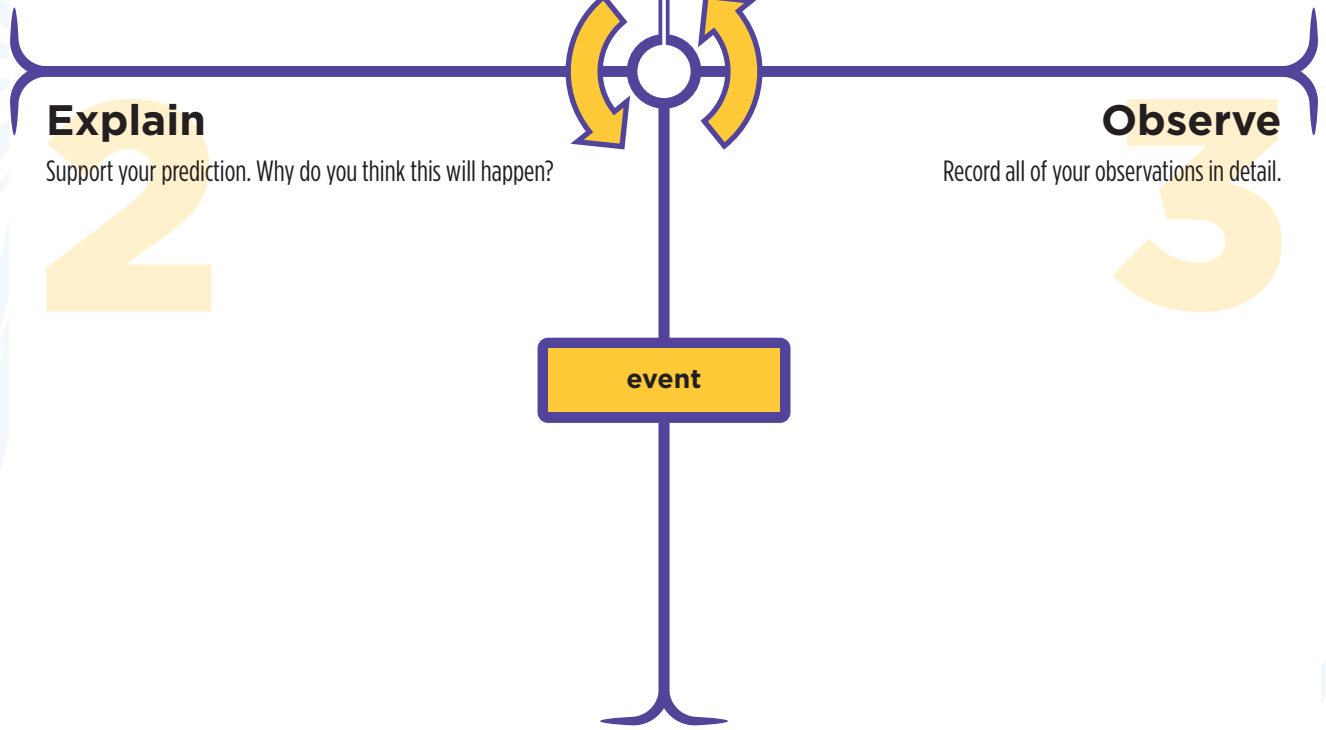
Situation: If  is changed what will happen to  ?

Predict If... then....

What will happen?
Include a labeled diagram to help show your prediction.

Explain

What are the differences and similarities between “Predict” and “Observe”? What have you learned?



Next Steps: What further questions do you have because of this activity and how would you answer them?

Predict-Explain, Observe-Explain

- Understand the situation or challenge.

1. PREDICT

- Write a prediction statement for the event.

“IF _____

THEN _____.”

- Draw a well labeled diagram of your prediction.

2. EXPLAIN

- Write an explanation of your prediction drawing from your understanding, experiences, theories, models and or insights gained from your research on the topic (background info may be provided or your own research may be required) – point form.
- Share your predictions with your group and/or class.
- Modify your prediction or explanation based on the group discussion.
- VOTE

3. OBSERVE

- Decide what evidence you can collect, or measurements you will take, to check your prediction.
- Carefully collect evidence, and take measurements. Using scientific equipment and techniques, carefully collect data.
- Record your observations.

4. EXPLAIN

- Write an explanation for your observations. Use theories or models to help explain your evidence and measurements? (background info may be provided or you may need to complete your own research to support or refute your findings) *Believe your observations – don't worry about what you were supposed to see.*