

Name: _____

Date: _____

Mission: Native vs. Invasive Plant Phenology

Student Notebook

Lesson 1: What is Phenology?

Essential Question: What types of changes happen in an ecosystem?

After completing this activity, I will be able to...

NGSS CCC7:	Level 1	Level 2: <i>all of level 1 and...</i>	Level 3: <i>all of level 2 and...</i>	Level 4: <i>all of level 3 and...</i>
Stability and Change	Identify three seasonal changes.	Distinguish seasonal change from other types of changes.	Define phenology and phenophase and give examples of both from the ecosystem I am investigating.	Explain how phenology, change over time, and day-to-day changes are all part of Mission: Native vs. Invasive Plant Phenology.

Once you have completed the activity, circle the highest level that you achieved. Draw a star next to the evidence in the student notebook that shows that you did this.

1. Find a spot that is at least ten steps away from the nearest student, but where you can still see your teacher or chaperon.
2. **Make observations** of the area around you. Notice what you see, hear, smell, and feel. Record as many different observations as you can in 5 minutes.

I see/hear/smell/feel...

3. **Make predictions.** Write down as many changes as you can, big and small, that you think will happen in this area.

What are changes that happen from one minute to the next?

What would be different if you came back tomorrow?

In three months?

In six months?

In ten years?

In one hundred years?

Assess: Define phenology and phenophase. Give an example of each from your field site or Mission: Native vs. Invasive Plant Phenology.

Phenology:

Phenophase:

How are seasonal changes different from changes that happen from minute to minute or over hundreds of years?

Reflect: What changes came up in conversation that you hadn't thought of before?

Think ahead: What kinds of change are involved in Mission: Native vs. Invasive Shrub Phenology? Explain.