

## Lesson 5: Collect Data

Essential Question: Is my shrub present at my field site? What phenophase is it in?

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

<b>NGSS Practice 3</b>	<b>Level 1</b>	<b>Level 2: all of level 1 and...</b>	<b>Level 3: all of level 2 and...</b>	<b>Level 4: all of level 3 and...</b>
Planning and Carrying Out Investigations	Search carefully for my species, paying attention to its distinguishing features.	Take clear photos and detailed, accurate written observations.	Use the skills that I developed in class to make sure that my observations are high quality.	Take note of what is working, and what isn't, and identify potential sources of error.

*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.*

### Prepare for data collection:

1. Go over your data collection plan with your fieldwork team. Determine who is responsible for each task:

Tasks: Record field site information (page 1 of the Vital Signs Species and Habitat Survey).  
Take field site and sampling method photos.

Students responsible:

Tasks: Search the area for your shrub. Use the Vital Signs Species ID card to help you. Look for at least 10 minutes and record the number of minutes spent searching in your field notes.

Student responsible:

Tasks: Take clear, close up photos that will help you show that you did or did not find your shrub. Record written evidence as well (pages 2A and 2B of the Vital Signs Freshwater Species and Habitat Survey).

Students responsible:

Task: Determine the phenophase of any found shrub. Search carefully—only one leaf is needed to show a new phenophase. Take a picture of the leaves or buds that shows the phenophase.

Students responsible:

2. Gather your equipment, including:

- Upland Species Survey data sheet
- Species ID cards for the species you are looking for
- Camera, ipad, or phone to take pictures
- Extra pencils
- ruler
- clipboard

**Go out to the field and collect data:** Check with your field work team mates to make sure that you have completed all of your tasks.

**Assess:** Is the Vital Signs Species and Habitat Survey complete (all sections)? Do you have clear photos to show you found or did not find your shrub? Do you have evidence to show the phenophase?

**Reflect:** What did you observe or encounter that you did not expect? Did anything surprise you?

**Think ahead:** Were there any errors that may influence your results? Describe them. Were you curious about anything else during your investigation? What new questions came up?