

# Population Dynamics

## Exploring Our School Ecosystem: Teacher Instructions

### Part 1: Setting Up Seek

1. Use the Seek slide deck to introduce citizen science and the Seek/iNaturalist project
2. If you would like for the observations to be linked to iNaturalist you will need to set up a classroom iNaturalist account.
  - a. Attach the classroom account to the CIBL Life Science project using the following instructions

iPhone	Android
<ul style="list-style-type: none"><li>● Click projects</li><li>● Search your project name: <b>CIBL Life Science</b></li><li>● Select and click join</li><li>● Go back to the main screen</li></ul>	<ul style="list-style-type: none"><li>● Click 3 lines on the left side</li><li>● Click projects</li><li>● Search your project name: <b>CIBL Life Science</b></li><li>● Select and click join</li><li>● Go back to the main screen</li></ul>

- b. Have students click the three lines, click iNaturalist, and attach with the classroom login

### Part 2: Using the Seek Camera

1. Use the iNaturalist slide deck and go over why Seek is important and how to use the Seek camera. There is a Seek guide at [http://static.inaturalist.org/wiki\\_page\\_attachments/SeekUserGuide2020.pdf](http://static.inaturalist.org/wiki_page_attachments/SeekUserGuide2020.pdf)

For more tips for using Seek & iNaturalist in your classroom please visit

<https://www.inaturalist.org/pages/teacher's+guide> Remember all students under 13 must use the Seek app.

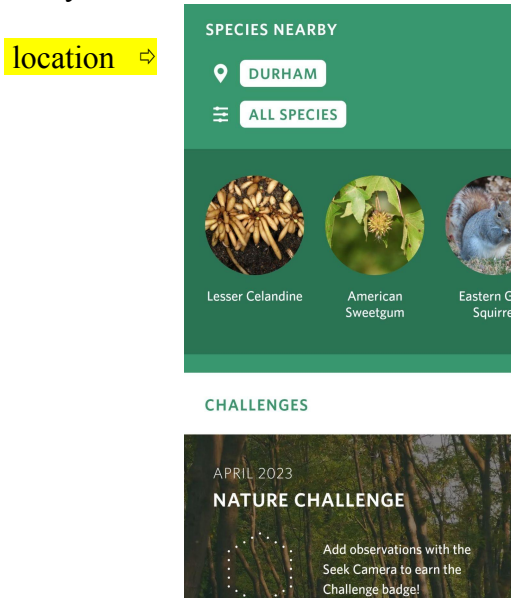
### Part 3: School Ecosystem

1. Have students predict what producers, consumers, and decomposers they may find on their school grounds.
2. Remind students that every organism is a NEW OBSERVATION.
3. Have students make observations.
4. Look at class data to get a larger picture of the school ecosystem.
  - a. Have students post their observation sheets around the room and do a gallery walk.
  - b. **If you created an iNaturalist account follow the following steps to see the data**
    - i. To see everyone's photos, click on projects (iPhone-located at the bottom of the app/Android-click the 3 lines in the upper left corner), and click on your class project: **CIBL Life Science**.
    - ii. Observe all of the photos. *What producers, consumers, and decomposers were found that were on your list? Why do you think some of the organisms on your original list were not spotted today? What organisms were not on the list?*
    - iii. Using the photos from the class, have students create a food web. Next, *look at your food web and predict what might upset the web.*

## Part 4: Different Biomes, Different Ecosystems

The students will get to explore three different biome ecosystems by following the directions below

1. Click your location.



2. Using your fingers, zoom out, and go to a location in one biome.
3. Click **Search Near Location**.
4. Observations in that area will pop up. You can click **All Species** and change categories to look at specific observations. Using the observations from this biome, build a food web. *How is this food web different from your school's food web? How is it the same? How do the abiotic factors affect the ability of organisms to grow, survive, and/or create their own food?*
5. Repeat this process with two more biomes.