

All Level Nurdle Survey

Description: Students will participate in the Citizen Science project where they will go out into the field, collect data, and submit their data onto the Nurdle Patrol site.

Audience: All Level

Student Outcomes:

- Groups will participate in the Citizen Science project-Nurdle Patrol, by going into the field and collecting Nurdle samples and reporting the data collected, onto the Nurdle Patrol site.
- Groups will define problems and draw conclusions based on observations from the investigation.
- Students will demonstrate an understanding of what a nurdle is and the problems that they pose on our ecosystems.

Background Information:

[Nurdle Patrol Training Video](#)

[River Nurdle Survey Training Video](#)

[The Great Nurdle Hunt- problem with nurdles.pdf](#)

[Nurdle Fact Sheet](#)

Materials:

- Transportation
- Stopwatch or device for timing
- Recording sheet OR access to a device with internet to enter your data immediately after conducting a Nurdle survey.
- Pencil
- Glass jars to collect your sample in
- Tweezers (optional)
- Gloves (optional)

Introduction:

If the group that you are taking is unfamiliar with nurdles, take some time to view the following video. [Hurdles with Nurdles](#)

The following videos are trainings on how to conduct a nurdle survey and where to enter your data. One video demonstrates how to conduct a beach survey. The other video demonstrates how to conduct a survey for rivers or creeks.

Beach: [Nurdle Patrol Training Video](#)

River or Creek: [River Nurdle Survey Training Video](#)

Procedures for a beach survey:

1. Once you have arrived at your location for surveying you will start at the water line and walk to the first high tide line (wrack line). Start your timer for 10 min. and begin looking for Nurdles.
2. If a Nurdle is found within that 10 min. You are going to restart your timer for 10 min. And continue looking for nurdles. When the 10 min is up you will count the number of nurdles and fill out the datasheet online.
3. If in the initial 10 min of looking for nurdles you DO NOT find any, you will stop at the end of that time and fill out the datasheet online. However, take notice if you are at the vegetation line. If you are then stop your survey is completely done. If you are not at the vegetation line yet, then you will repeat the same process again at the next high tide (wrack line)
4. All data will be submitted at www.NurdlePatrol.org. You may include photos of nurdles and survey site location as well.
5. 5. Once data is submitted it will automatically show up on the map.

Click on the following link to see the flow chart on how to conduct a Nurdle Survey:
[Nurdle Survey Flow Chart](#)

Procedures for a river or creek survey:

1. If you are unable to conduct a survey at a beach, you can still conduct a survey at a river or creek.
2. You will start looking along the new strand line. This will be where the water has been within the last 24 hours.
3. Once you have found your first nurdle you start your timer for 10 min. and continue collecting nurdles.
4. When the 10 min. is up you will count up the number of nurdles you collected.
5. All data will be submitted at www.NurdlePatrol.org. You may include photos of nurdles and survey site location as well.
6. 5. Once data is submitted it will automatically show up on the map.