

# Data Collection

Name: \_\_\_\_\_

The following questions are to be completed following viewing the 360° sponge sampling video available on the 'Dive Deeper' virtual exhibit <https://divedeepersite/sites/deer-island-point/> in the Deer Island Point 3D exploration. Also use the sponge virtual microscope and other information in the Deer Island Point and Casco Bay Island sites.

**Watch the whole 360° sponge sampling video without changing the view. Watch it again, but look around.**

A diver cuts a piece off the sponge and places it in the bag. Why would bringing back a sample to the surface help scientists?

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Search for sponges on the species pages to understand how they live and what makes up a sponge. Will sampling a piece of sponge kill what is left?

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Here are three ways to gather data underwater:

1. Via photography and/or videography
2. Through observation (data recorded during dive)
3. By gathering samples to bring to the surface

Which technique would be best suited for the following scenarios? Each method may be used more than once.

- \_\_\_ You are comparing species and must gather DNA from an orange-footed sea cucumber.
- \_\_\_ You have very limited time during a dive and need to gather as much data as possible.
- \_\_\_ You are tasked with determining how Atlantic wolffish interact with their environment.
- \_\_\_ You want to examine the internal anatomy of a green sea urchin.
- \_\_\_ You are studying the arrangement of species on a rock. Beforehand, your camera battery dies.
- \_\_\_ You want to gather information on the sex of a population of rock crabs

