Name _____

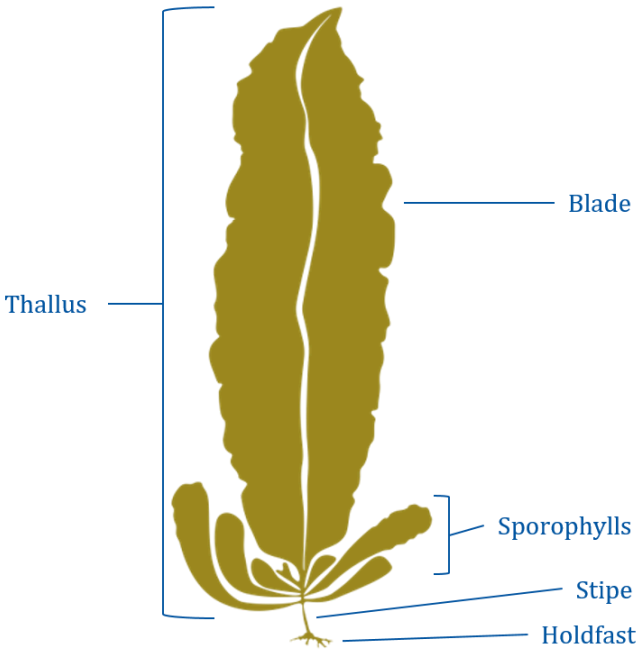
Seaweed vs. True Plant - Microscope Activity Worksheet

Part 1. Select a seaweed sample and a true plant sample to examine close up.

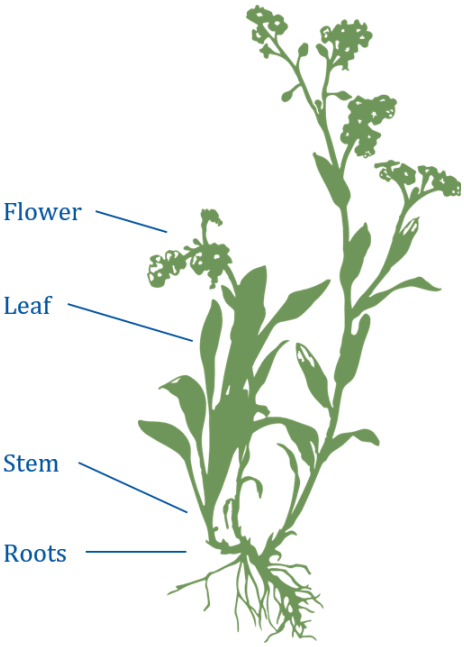
Using the figure below as a guide, what similarities **and** differences do you predict you will observe between your two specimens? In your own words, write 1-2 sentences describing your predictions.

_____

_____



geesh (ribbon kelp)



alpine forget-me-not

Seaweeds:

- May be unicellular, colonial, or multicellular
- Holdfast, stipes, and blades compose multicellular algae
- Generally, each cell in algae must obtain its own nutrients from water for survival
- Photosynthetic
- Can only be found in water
- Reproduction: can reproduce through tiny spores or some species by replication of the growth of broken pieces

True Plants:

- Only multicellular
- Roots, stems, leaves, flowers, fruits, seeds, and cones
- Have vascular systems
- Photosynthetic
- Can be found on land and water
- Reproduction: multi-cellular reproductive systems and certain species require assistance from wind, insects, or bats for pollination

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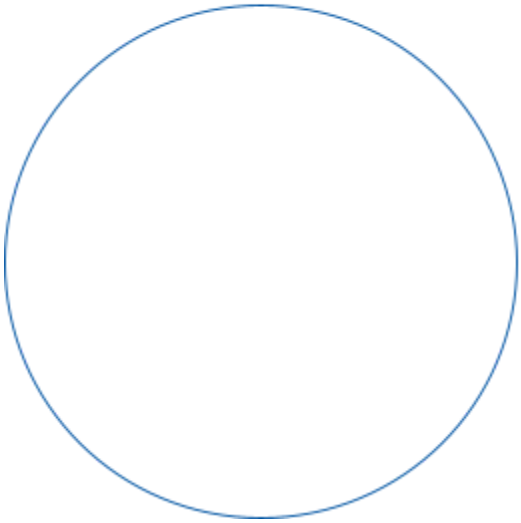
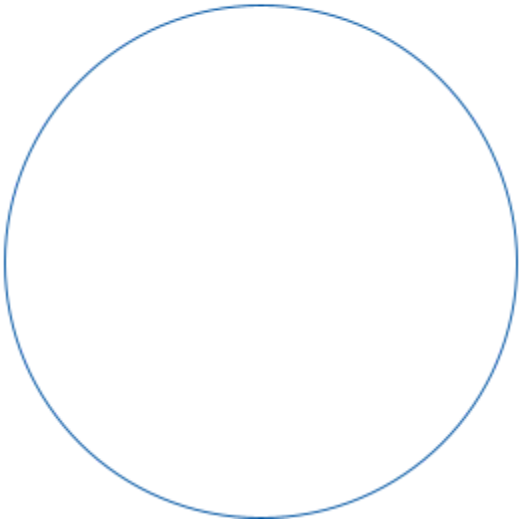
Part 2. Take a few minutes to then carefully look at the samples up close, using only your eyes and draw what you see:

Seaweed (with my own eyes)



True plant (with my own eyes)



What similarities did you observe with your own eyes? _____

_____

_____

What differences did you observe with your own eyes? _____

_____

_____

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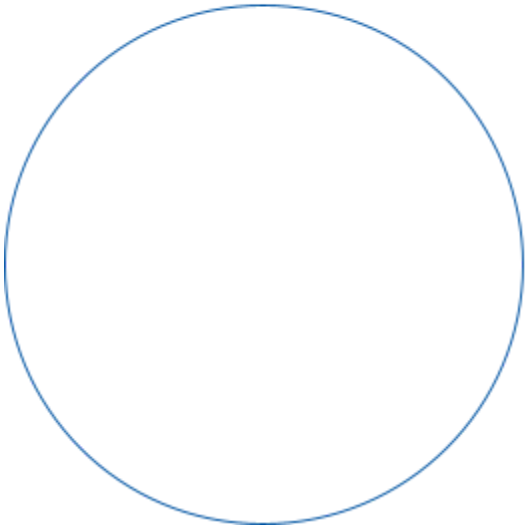
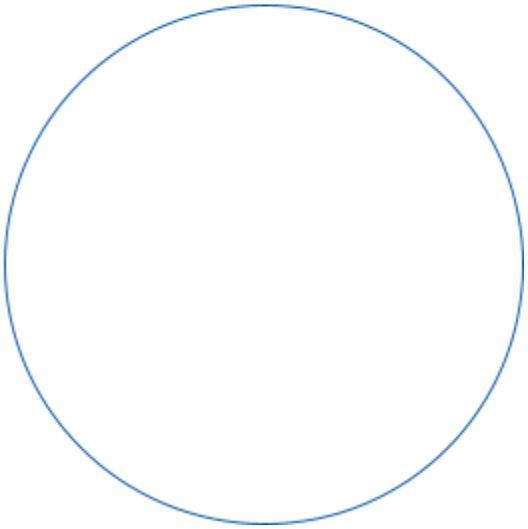
Part 3. Now use a microscope to carefully observe the samples and draw what you see:

Seaweed (with microscope)



True plant (with microscope)



What similarities did you observe when looking through the microscope?_____

_____

_____

What differences did you observe when looking through the microscope?_____

_____

_____