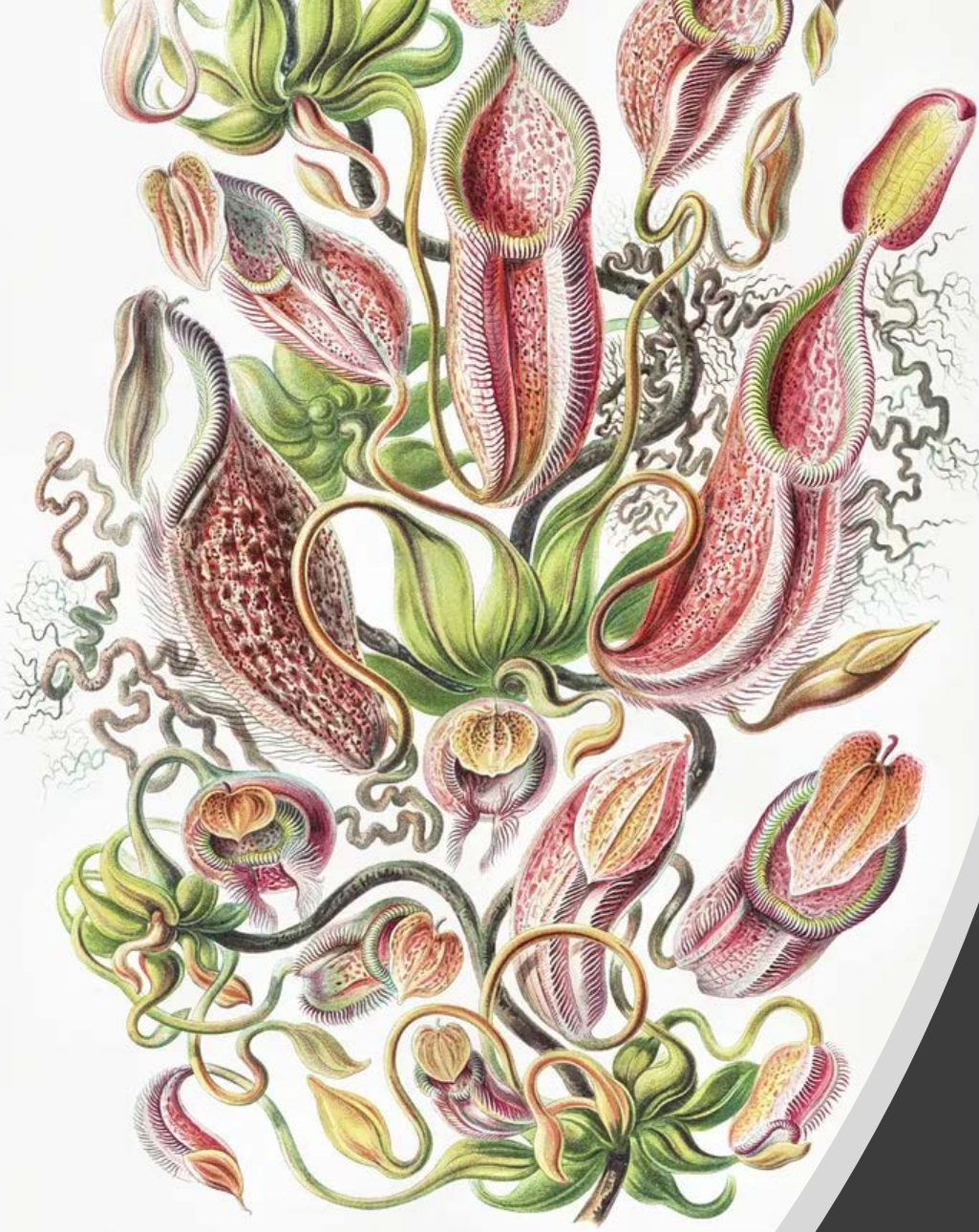


Ernst Haeckel



Nepenthaceae. — Sannepflanzen.

4 DRAWING SCIENCE



An introduction to Scientific Observation
and Sketching

Observational Drawing

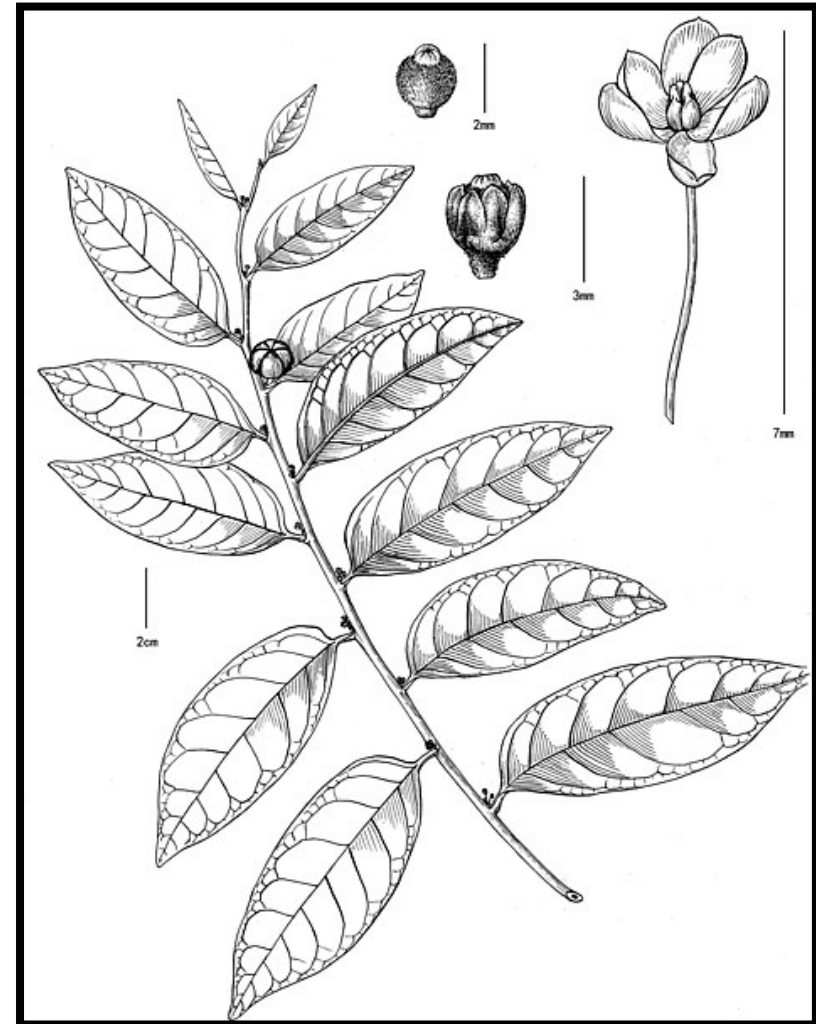
Why draw what we see?

Scientists draw and sketch in their notebooks in order to record and communicate their observations. Sketching like a scientist does not require you to be good at drawing. All you need to do is take time, observe your surroundings and draw what you see in front of you.

Like other skills, observational drawing improves with practice. The level of detail and the quality of your drawings and observations will grow as you practice and learn more about the object.

How to draw?

1. Choose a simple item to observe by yourself or with a friend.
2. Think about the main parts that compose the object you chose. What do you see? Do you see the same as your friend?
3. Draw a general outline of the object you are observing using all the space provided. Did you include all the things you see?
4. Did you include all the things you see? Can you ask your friend or teacher to look at your object and suggest features or details to add? Improve your drawing with suggestions.
5. Did you see something interesting? A detail you like? Try drawing it in a zoom bubble to show more detail. You can add labels to add additional info like colour, texture, smell, etc.
6. Be patient— detailed drawings require time and effort.



Yao G, Song Z-Q, Xue B-E, Shi S, Li Y-L, Luo S-X (2020) Taxonomic revision of the genus *Glochidion* (Phyllanthaceae) in Taiwan, China. *PhytoKeys* 159: 137-159. <https://doi.org/10.3897/phytokeys.159.54839>

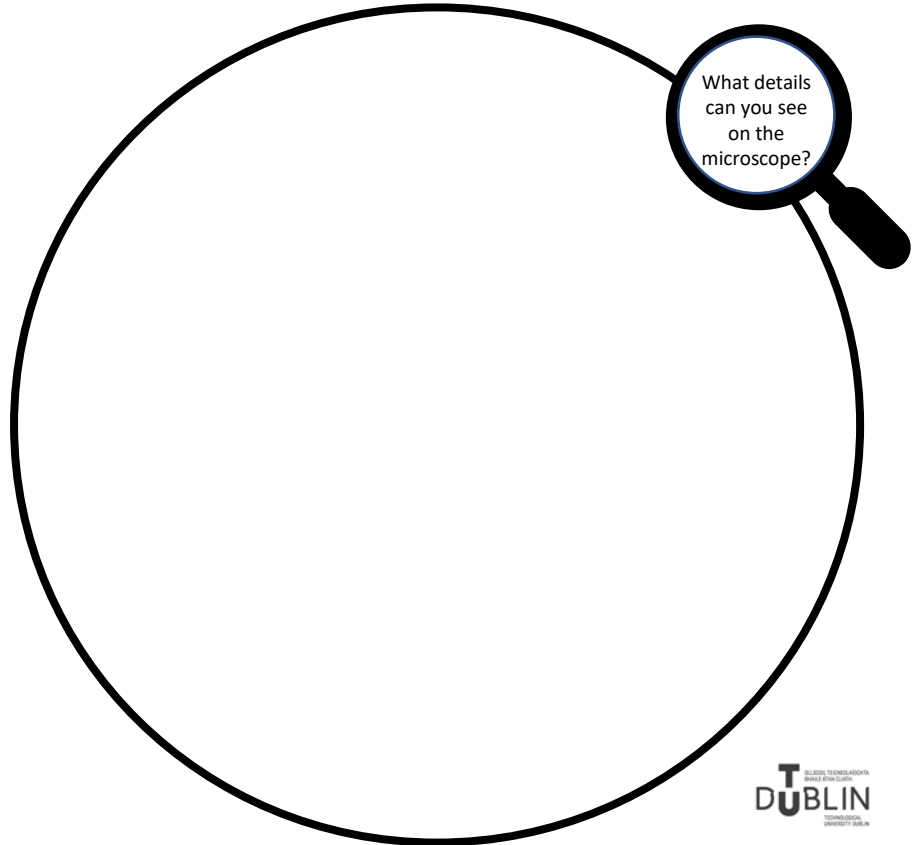


Observe and Record!

Name: _____

Date: ____/____/____

What did you see....? A flower? An insect? A mineral? 



With your eyes

I saw a

This is what it looked like.



With the microscope

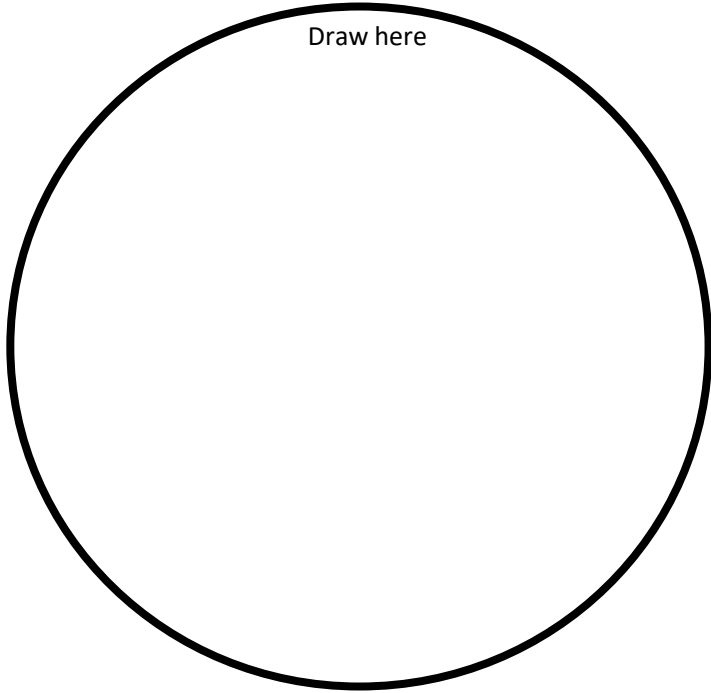
Observations: _____



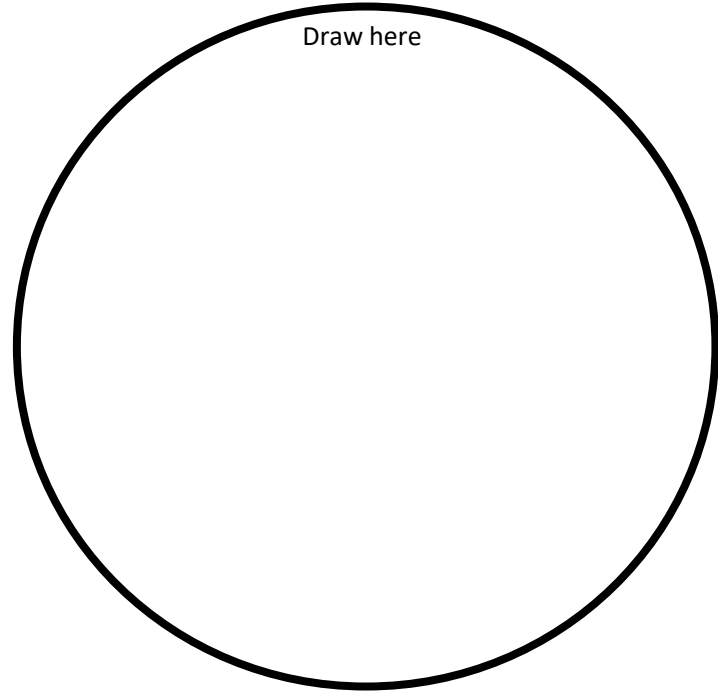
Compare Samples

Name: _____	Date: _____
-------------	-------------

Draw here



Draw here



Sample (*what am I looking at?*): _____

Observations (*what do I see?*): _____

Sample (*what am I looking at?*): _____

Observations (*what do I see?*): _____



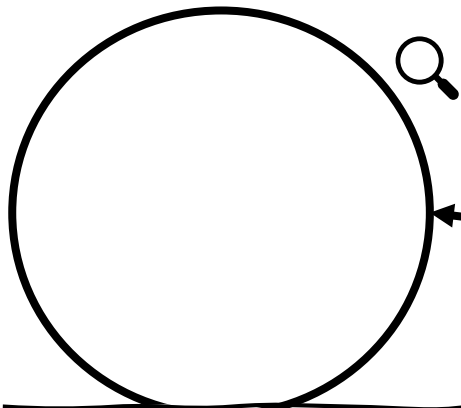


Observe and Record!

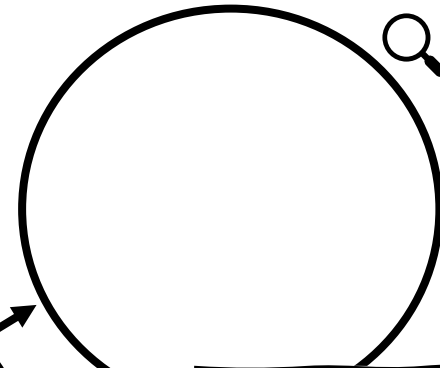
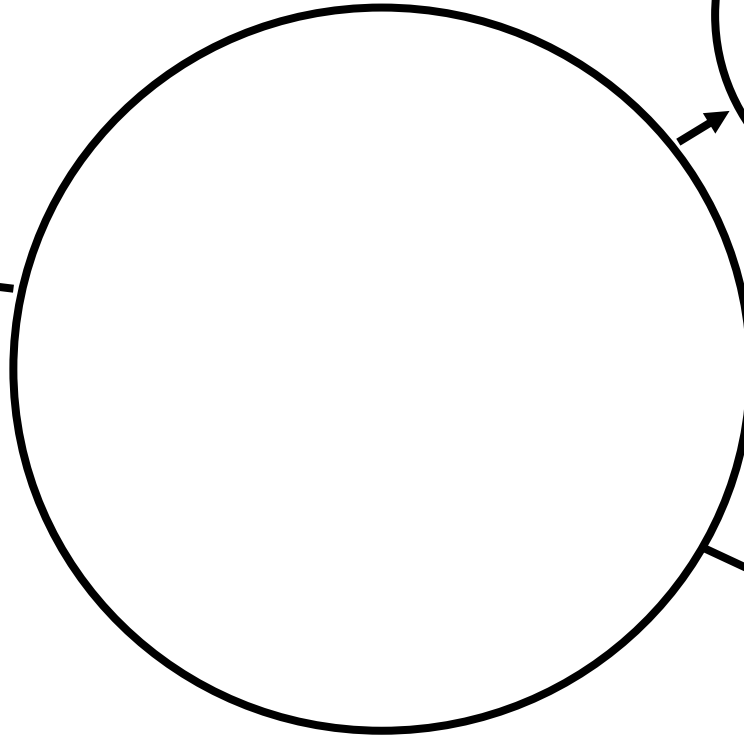
Name: _____

Date: ____/____/____

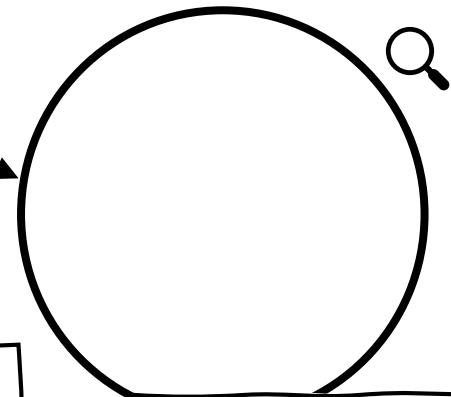
Draw a flower. What details can you observe?



Details: _____



Details: _____



Details: _____

Sample (what am I looking at?): _____

Observations (what do I see?): _____

