BIO 188, SCU Biology Dept., Fall 2023 Name: _____

Lab 2: Screw Worksheet

Let's take a closer look at the screw. If at any point you get confused trying to fill this out, continue watching the video (or watch it again) to try to get a better understanding of how to apply the concepts. If that doesn't help, try going back to re-watch the first video.

2.1 - Think about the function of a screw. In your own words, what is it trying to accomplish? What is the driving force behind it and how does it behave as a tool?

2.2 - Reviewing the other simple machines we have looked at already and remembering what each one tries to accomplish, fill in the blank in the following sentence

A screw is basically a _____ wrapped around an axel.

2.3 - Circle the correct answers in the following sentences:

The end of the screw to which force is applied is the **thread / head**

which means that the other end is the one that **effects / recieves** force to the surroundings.

The direction of work being put into the screw is **down / around**.

The force being put into the screw is **greater than / less than** the force from the screw into the wood.

This means that the applied distance must be **greater than / less than** the force from the screws into the wood.

Based on this, we know that people use screws to improve **force / distance** of the applied force

at the cost of a greater required **force / distance**.