



Week 1 – “One Thing Learned”

how to **pipette**.

use Microsoft excel to **utilize statistical practices** with our data.

You need to **wet a pipette** before you use it so that you can get the most accurate measurement.

the **Tuckman model** and how it can be used to understand the stages of teamwork (forming, storming, norming, performing)

appendicitis and its causes and effects

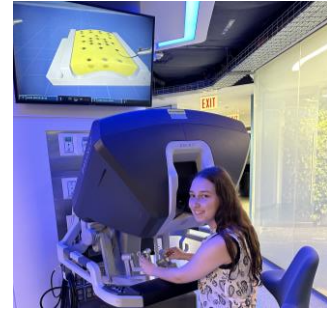
references and citations ...and how they are different from each other.

ask yourself questions when trying to come up with a product idea and how to help others

fundamentals of **machine learning**.

CUDA is a way to select a GPU to run code on, since usually code is running on the processor

color changing tape to show whether or not pipette tips are sterile.



Week 2- "One Thing Learned"

Today I learned how to suture a wound.



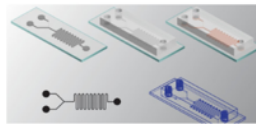
how to properly hold a **suturing needle** with the needle holder.

how to stop a person from bleeding today

there are **2 layers of skin**, and the needle has to go under the white layer to actually hold.

For patients who have recovered from strokes, **using a robotic arm and a simulation** can help them think that they are moving their arm when in reality they aren't.

at the **Shirley Ryan Ability Lab**the many ways in which devices to improve mobility work against gravity.



When creating **microfluidic devices**, you need to put the **PDMS** in a vacuum to ensure that all the air bubbles are removed so it doesn't interfere with the device.

Today I went to the OR and watched **a surgery take place**. In this case a muscle from the leg was taken and placed on top of the head which was just bare bone.



Week 3- "One Thing Learned"

There are **red blood cells, white blood cells, and platelets.**

how to use a **Neubauer Hemocytometer.**

Robotic surgery allows for a faster healing process because the incisions made on the body are much smaller and more precise.



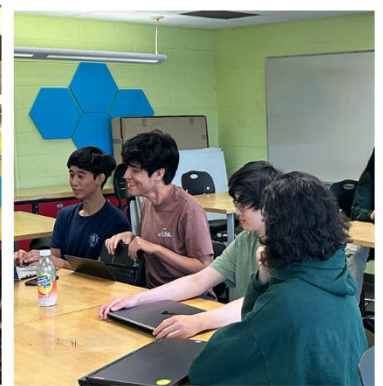
I learned how to perform cell counts with the microscope.

the surgical procedure of **injecting botox into the bladder**

I observed in the OR that surgeons will sometimes **feel inside the wound** with their fingers before closing it up to ensure to check for any residual bleeding, proper alignment of tissues, etc.

When coming out of anaesthesia, **patients may choke** on the tube because they will try to use their airway reflexes but the anaesthesia tube interferes.

having a **good personality and balanced resume is important.**



Week 4 – “One Thing Learned”

how **flow cytometry** works in Joey’s lecture

how to **3d print** my Keychain within the UIC maker space.

macrophages play a role in **aging**.

many components that go into **creating a club** event.

history and purpose of the SITL. The SITL has two main purposes: innovation and education.

Robotic surgery can not only benefit the patient (faster recovery, less risk of infection, less cuts), but can also benefit the surgeons.

AI in the surgery of a cholecystectomy

Macrophages are a type of white blood cell that surrounds and kills microorganisms

