

Integumentary System
Unit 3 Project
Honors Physiology

Smartphone Microscope

Due: Thursday 10/27/16 (Periods 3 & 5) or Friday 10/28/15 (Period 4 & 6)

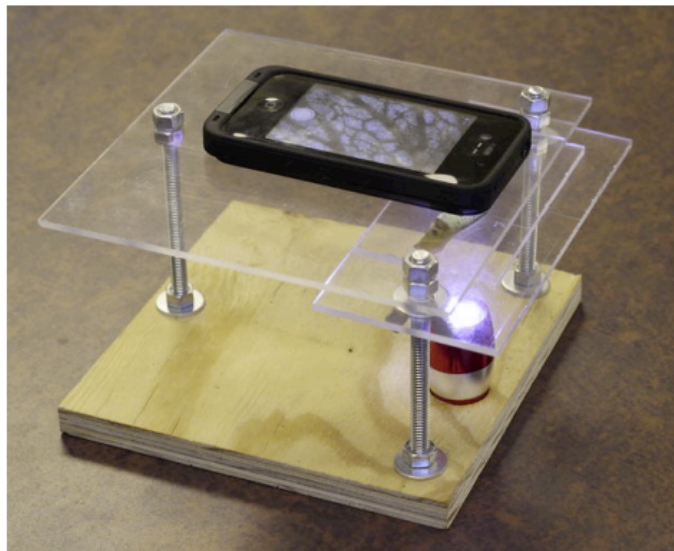
In place of a chapter test, for the Integumentary System you will be constructing a Smartphone microscope. Instructions and required materials are listed below.

There are many different websites and videos showing how to build a microscope that works with the camera on your smart phone, I will link a few of these to my webpage to get you started.

In order to use this for your Unit 3 project, you must have a smart phone, a drill, and you will need to cover cost of supplies (~\$15).

Requirements:

- 1) Build a functioning smart phone microscope. (You may not purchase a pre-made smart phone microscope, or a pre-packaged kit)
- 2) Take a **minimum of 10** pictures of items or slides (related to the Integumentary System) viewed under your microscope. You may come in during support or during our class research days to use our class slides.
- 3) Make a poster including the images captured with your microscope, with **detailed captions** describing the images. On your poster, you should also include a list of supplies that were needed to make your microscope, a set of instructions for building the microscope, and a photo or two of you building the microscope.
- 4) Bring your microscope to class to present with your poster, so we can see your work and test it out!



Rubric

Points Possible

Microscope:

- Microscope was constructed with proper materials (no kit, etc.) _____/ 5
- Work is both neat and creative _____/ 5
- Microscope functions properly and was brought to class _____/ 5

Posterboard

- Microscope materials list included _____/ 7
- Instructions for how to build the microscope are included _____/ 7
- Work is neat, clear, and creative _____/ 6
- A minimum of 10 slides are included as clear, focused pictures _____/ 15
- Captions are detailed and descriptive _____/ 15

Total: _____/ 65