

Skin You Alive!

| Equipment Needed | Consumables |
|--|-----------------|
| • <i>Intel QX3+ Computer Microscope™</i> | • none required |

Procedure:



Launch the microscope software. Make sure the microscope has been set at 10X before starting to use it. Make sure the upper light is on.



Lift the microscope off the stand, and focus it on the skin of your hand. Examine the skin at various magnifications, and have a partner take snapshots of the structures. Observe any differences between the skin on your fingertips and the skin on the back of your hand or your arm.



Export any images you may wish to use for your report about skin.



Optional Extension: Place a sample of bone on the stage, and focus the microscope. Increase the magnification to 60X and 200X and focus each time. Take a snapshot of one of the images of the bone. This image should show the characteristics of the bone structure clearly.

Note: Bone samples should be carefully cleaned and boiled for at least 10 minutes before using them in a classroom activity.



Describe the appearance of the skin. Did all the samples of skin you observed appear to be the same?

Make observations, including some of the pictures you took, to describe your body's largest organ, the skin.

Be sure to tidy up the activity station before moving to the next one.

Skin You Alive! Observation Sheet

Name _____

Include notes, diagrams and details about your skin. Make sure you have observed skin from at least three different locations (for example, your fingertip, your arm, and the palm of your hand)

Location 1: _____

Location 2: _____

Location 3: _____

Copy and paste any other digital images on another page to include with your observations.