

Instructor resources:

E-resources

This website allows the students to virtually go through the major steps in preparing a slide and using the microscope. This would serve as a good prelab or alternate activity.

<http://interactive.knowitall.org/interactive/hobbyshop/Microscope/>

This is an older version of a virtual microscope created by the University of Delaware. It is a good app to orient students to all of the components of the microscope. More detailed than the know it all version.

<https://www1.udel.edu/biology/ketcham/microscope/scope.html>

Forensic microscopy

It is up to you whether you want to have a single suspect be the perpetrator for the entire class or if you want individual student groups to have their own perpetrator. The table below suggests possible materials to use in creating the exhibits.

Suspect #	Fiber	Blood	Debris	Publication
1	Wool	Reptile*	Gritty gravel, oil stains	Letter e slide, classified ads
2	silk	Bird/reptile	Potting soil, bird seed, feathers	Letter e slide, glossy magazine letters
3	cotton	Reptile/bird	Soil with sand, maybe aquarium colored gravel, other pet store debris, fish scales	Letter e slide, magazine print
4	Rayon/polyester	Human/mammal	Soil with red clay	Letter e slide, newsprint

Pond water

If you have a source of pond or lake water get your samples from there. Make sure to collect some debris or sediment. If you do not have a pond, lake or river nearby, make a hay infusion. Take a hand full of dry grass (preferably untreated) or hay and add it to a large beaker of distilled water. The hay infusion needs to be prepared at least 1 week before the lab.