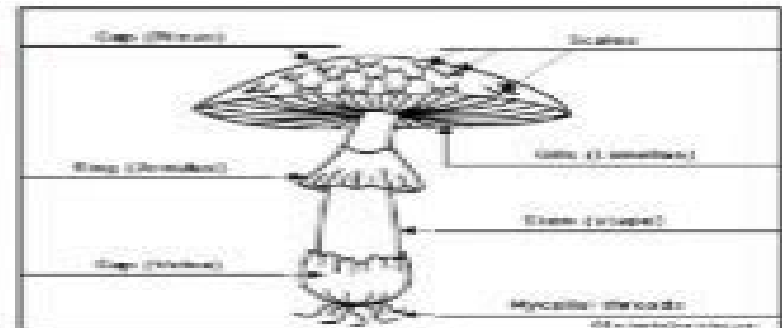


Mushroom Dissection Lab

Purpose: The purpose of this lab is to acquaint students with various parts of a typical fungus. In this activity you will have the opportunity to really look closely at a mushroom specimen, readily purchased from your local grocery store.

CAUTION: Although the mushrooms used in this lab are intended for food - **DO NOT EAT OR TASTE THE MUSHROOMS USED IN THE LAB.** This will result in a ZERO for the lab.

Background: Fungi are critical parts of most ecosystems and an important part of the diet of many students (and teachers). Mushrooms are one member of the phylum Basidiomycota, a group of fungi named because their spores are produced on a structure called a basidium. They are saprophytic, which means that they obtain their food from digesting dead or decaying matter. They do not have chlorophyll and don't carry on photosynthesis; thus they are usually a color other than green. The object we usually call a mushroom is only a small part of the total organism. The mushroom itself is actually the fruiting body or reproductive structure of a fungus. The mycelium or main body consists of thread like hyphae which is spread out through the soil. The mushroom is a fruiting body that carries sexual spores and grows up from the mycelium. Mushrooms in the genus *Agaricus* are raised commercially and sold in most grocery stores. In this lab activity students will locate and identify the principle parts of the typical mushroom and study them with both dissecting and compound light microscopes.



Materials:

Mushroom	Compound Light Microscope	Forceps	Spore Print Paper
Dissecting Microscope	Microscope slide	Cover slip	
Water Eye Dropper	Dissection Pan	Scalpel	

Procedure Day 1:

1. Get your mushroom and place it on the paper towels in front of you. Examine it closely. In your lab notebook draw a diagram of your mushroom, **labeling the cap, stem and gills and any other visible parts.** If the gills are not visible, remove the tissue (it's called a veil) protecting them gently with your forceps. Be careful not to touch the gills with the forceps. **Diagram your mushroom in your lab notebook.**

2. Grasp the cap firmly with one hand and the stem with the other hand. Gently wiggle and/or twist the stem until it breaks away from the cap.

3. Pinch the stem between your fingers until it breaks into two or more long pieces. Gently pull the pieces apart. The thin, hairlike filaments you will see where you split the stem are the hyphae. Place the stem section under the dissecting microscope and examine the hyphae. **What do they look like? Draw and describe them on your answer sheet. Diagram your hyphae in your lab notebook.**

4. Place the stem pieces in your dissection pan and turn your attention to the cap. Look at the underside of the cap to study the gills. Each gill is lined with thousands of small structures called basidia. Using your forceps, gently remove one gill from the cap. You will get better results if you GENTLY grasp the gill near where it attaches to the cap. Try to avoid touching the free edge, the one along the bottom of the gill, with your forceps. The basidia you want to see under the microscope are fragile and easily damaged if you aren't careful.

5. Place the gill on a microscope slide and use the standard procedure for preparing a wet mount. **Diagram your gill and basidia in your lab notebook. Be sure to label each.**



Mushroom Dissection Lab Answers

PT Brinkman

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the PT Brinkman text.

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