

Sec. \_\_\_\_\_ Name: \_\_\_\_\_

Experiment: Examining Fungi  
(B. Science 10-21-lab)

Purpose: To observe some examples of fungi and to observe a video describing the major characteristics of fungi.

Materials: **Part A:** bread mold yeast mushrooms shelf fungi lichen sugar microscopes coverslips microscope slides  
**Part B:** Science 33 "The Biology Of Fungi"

Methods: **Part A Observation of Fungi**

1. Place some yeast in sugar water and let it set there for 30 minutes

2. Use a medicine dropper to place a few drops of solution on a microscope slide and place a

coverslip on the solution. Place slide under the microscope. Focus the image and draw a sketch of the organism in the proper circle found in results part A. Record magnification.

3. As a form of asexual reproduction some of the yeast may be budding . If it is budding label the buds.

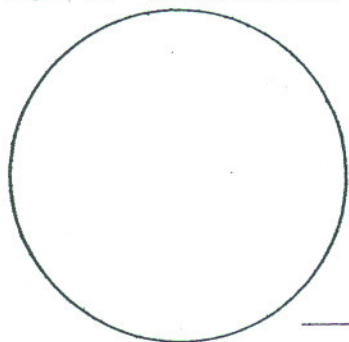
4. Now observe the remaining specimens located on the counter of the classroom. For each sample draw a sketch of in in the appropriate circle. Then record the phylum name that it belongs to, describe the appearance and life cycle of each organism.

**Part B VIDEO - "The Biology of Fungi"**

1. As you watch the video record the answer for each question listed in results section. The questions are in order as you watch the video.

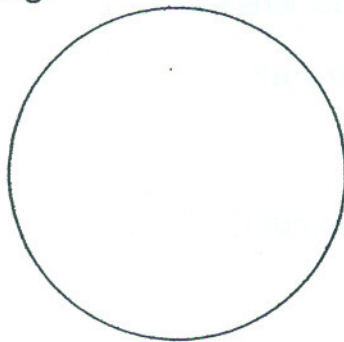
Results:

**Part A Observation of Fungi**

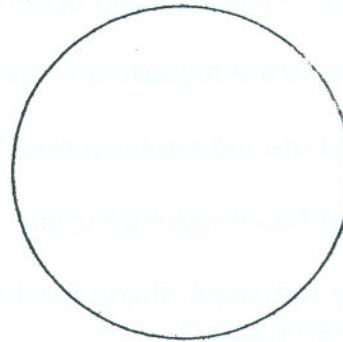


\_\_\_\_\_x

yeast



bread mold

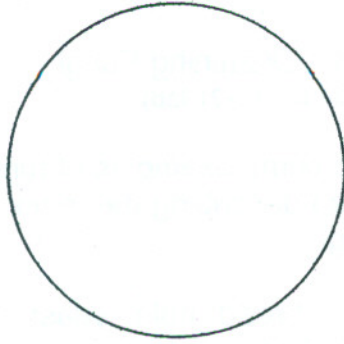


mushrooms

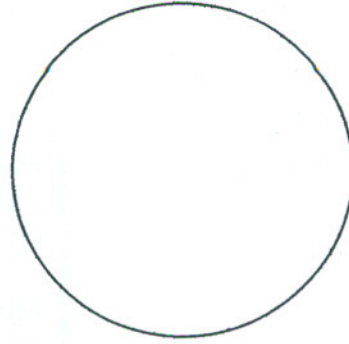
phylum  
appear.

life cycle

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____



shelf fungi



lichen

phylum  
appear.  
life cycle

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Part B VIDEO - "The Biology of Fungi"**

1. List the characteristics of Fungi (there is no narration for this question).
  - a.
  - b.
  - c.
2. What is the main specialty of fungi?
3. How many living species of fungi are there?
4. What are hyphae?
5. What are the five Kingdoms of living things?
  - a.
  - b.
  - c.
  - d.
  - e.
6. How do hyphae help fungi digest food?
7. What are the reproductive structures of mold called?
8. What will sporangium do when they are mature and dry out?
9. What can the water mold spores do?
10. Even though fungi are decomposers, what is it in competition with to get its food?
11. What is the penicillin used for by humans?
12. What is the mycelium of the mushroom?
13. What are the ascomycetes?
14. What has happened to the kernel of corn?
15. How are slime molds like fungi?  
like protists?
16. What is the vital niche of fungi in the ecology of Earth?

**Discussion:**

- 1a. Read John 6: 47 - 51. What does Jesus refer to Himself as?
- 1b. How are the effects of this "substance", that Jesus refers to Himself as, so different from the substance that we normally see & taste today and in the days of old?