**Yeast Lab**

The yeast in this lab was mixed with a warm sugar solution at least 24 hours ago so that you can view the budding process.

**Materials:**

Yeast and sugar water solution Microscope Slide and Cover Slip Microsope

Eye Dropper

**Directions:**

1. Grab a clean microscope slide and cover slip.
2. Place a drop of yeast sugar solution on a clean slide and cover it with a cover slip.
3. View the yeast buds under the microscope at 4 mag, 10 mag and then at 40 mag.
4. It may take a while for you to actually see some budding. Please be patient. Draw what you see

**Yeasty Questions: Asexual and Sexual Reproduction**

As you read the background knowledge for yeast, answer these questions.

1. What is the sexual mitotic process in which yeast produce?
2. In what other organisms does this process occur?
3. Do yeast produce sexually as well? When?
4. What is a haploid cell?
5. What is a dipoloid cell?
6. Which of these cells, diploid or haploid, are involved in meiosis?
7. List the other organisms that can reproduce sexually and asexually.
8. What is parthenogenesis?
9. In parthenogesis, what determines the sex of the offspring?
10. Look up the word propogated. What does it mean?
11. Why do farmers prefer asexual propagation?
12. What crops do farmers use vegetative propagation?
13. Explain one of their processes.