

# Yeast Population Lab

**Pre-lab questions:** Please define the following terms in your lab notebook. You should use these terms in the hypothesis, the analysis and the conclusion as you see fit.

Limiting factors:

Carrying capacity:

Exponential growth:

Logistical growth:

Density dependent factors:

**Purpose:** To study a population of yeast in a closed system over an extended period of time.

**Question:** What is the effect of time (5 days) on how the population of yeast grows if given only one dose of food?

**Hypothesis:**

**Variables:**

**Groups:**

**Materials:**

Sugar solution (30g/500ml)

rehydrated yeast (3.5g/50ml)

2 small (10ml) test tubes

1 eye dropper

10ml pipette

1-50ml graduated cylinder

1 Test tube holder

Read the following procedure carefully. **Highlight** the validity measures within the procedure.

## Procedure I: Culture preparation

1. Label 2 small test tubes with your group name, period and letters A & B.
2. Using the graduated cylinder, add 5 mL of **water** to test tube B and add 5 mL of **sugar solution** to test tube A. Do it in this order so that there is no sugar residue when measuring plain water.
3. Add 1 drop of yeast solution to each test tube. Use your disposable pipette to mix well by slowly squirting solution in and out of disposable pipette.
4. Cover test tubes with screw top and place test tubes in test tube rack at front of classroom. The instructor will put the test tube rack in a cabinet overnight.

## Procedure II: Sampling

1. Mix the contents of the test tube evenly by slowly squirting solution in and out of a clean, disposable pipette. Do this to distribute the yeast throughout the liquid evenly before sampling.
2. Using an eyedropper, place one drop of yeast solution from test tube A onto a clean microscope and use clean cover slip. **Be sure to put the remaining yeast solution back into the test tube and not down the drain!**

**\*\*\*Caution:** Iodine is dangerous - wear eye protection!!

Also, be careful not to mix up the eye droppers, putting the iodine dropper in your yeast culture will kill it!!!

# Yeast Population Lab Answers

**JS Bruner**



## **Yeast Population Lab Answers:**

## The Enigmatic Realm of **Yeast Population Lab Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Yeast Population Lab Answers** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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