Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

P. \_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**“Does Yeast Grow and Develop?” LAB**

1. **Question**: Does yeast grow and develop?

2. **Hypothesis**: If nutrients are given to yeast, then it will grow and develop.

3. **Test**: Materials: agar plate, cotton swab, 100 ml beaker, 40-46o water, yeast, stirring stick,

masking tape, permanent marker

Procedure**:**

A. **ON THE BOTTOM** of an agar plate draw a line down the middle.

Label one side as “1” and the other as “2.”

B. Obtain 40 m. of 40o-46o C water.

With a stirring stick add 2 tsp. of yeast into the 40 ml of water, stirring a little in at a time.

C. Pick up a cotton swab-only touching ONE end and dip the swab in the yeast solution (40 ml

of 40o-460 C water mixed with 2 tsp. of yeast).

D. Open the lid and gently streak the swab on the “2” section in the pattern shown below on

the AGAR side. Do not streak the “1” section. This is the control.

E. Replace the lid and get two short pieces of tape ---to tape shut the agar plate.

F. Write your table number and science period on the agar plate.

G. label these 3 things on your drawing below: **#1=no yeast #2=yeast agar plate**

Fill in the Control Group, Independent Variable, and Dependent Variable.

Fill in date.

H. After 2 days, (the day after tomorrow) observe the plate and record your observations for

each side.

(fill this section out 2 days after swabbing)

Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Observations

2

1

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

(this is the date that you swabbed the agar plate with yeast)

Control Group:

Independent Variable:

Dependent Variable: