

solutions and add an equal amount of water for a 1:3 dilution of the original concentration. You will continue this series of dilutions until you have four different amylase concentrations.

### Question

Pose a question about enzyme concentration and reaction rate.

### Hypothesis

Hypothesize about the effect of changing the enzyme concentration on the rate of reaction.

### Prediction

Predict the results of the experiment based on your hypothesis (if/then).

### Procedure

- Prepare the amylase dilution test-tube set B:
  - Number five standard test tubes 1 through 5.
  - Using the 5-mL graduated pipette, add 5 mL distilled water to each test tube.
  - Make serial dilutions as follows (use the graduated cylinder):
    - Tube 1: Add 5 mL amylase and mix by rolling the tube between your hands. (Dilution: 1:1; 0.5% amylase)
    - Tube 2: Add 5 mL amylase solution from tube 1 and mix. (Dilution: 1:3; 0.25% amylase)
    - Tube 3: Add 5 mL amylase solution from tube 2 and mix. (Dilution: 1:7; 0.125% amylase)
    - Tube 4: Add 5 mL amylase solution from tube 3 and mix. (Dilution: 1:15; 0.063% amylase)
    - Tube 5: Add 5 mL amylase solution from tube 4 and mix. (Dilution: 1:31; 0.031% amylase)

Rinse the graduated cylinder thoroughly.

Refer to Table 4.5 to confirm the contents of each test tube in set 1. Write the final concentrations of the amylase solutions in the last row of this table (see step 1c above). You will use these concentrations as you record and graph your results (see Table 4.6).



**TABLE 4.5** Test Tube Set 1—Contents After the Amylase Dilution

|                             | Tube 1 | Tube 2           | Tube 3           | Tube 4           | Tube 5           |
|-----------------------------|--------|------------------|------------------|------------------|------------------|
| Distilled water             | 5 mL   | 5 mL             | 5 mL             | 5 mL             | 5 mL             |
| Amylase solution            | 5 mL   | 5 mL from tube 1 | 5 mL from tube 2 | 5 mL from tube 3 | 5 mL from tube 4 |
| Final amylase concentration | .50%   | .25%             | .125%            | .063%            | .031%            |

# Biology 120 Laboratory Manual Answer Key

**WJ Hussar**



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