

AP Biology Lab 5: Cell Respiration

Alexander Schriber

Objectives:

- To understand the relationships between temperature, pressure, and gas volume.
- To study the effects of diffusion through a selectively permeable membrane.
- To quantify oxygen consumption rates in germinating peas under different conditions.
- To predict the effect of temperature and germination state on rate of cell respiration.

Hypothesis:

Temperature has an effect on respiration. Germinating seeds respire at a higher rate than non-germinating seeds. Beads do not respire.

Materials:

- 50* germinating pea seeds
- 50* dry pea seeds
- 100* plastic beads
- 3* respirometer vials
- 3* stoppers for respirometer vials
- 3* graduated pipets
- absorbent cotton
- non-absorbent cotton
- 1* round wood stick
- 3* pieces paper
- water bath
- bucket of ice
- 1* graduated cylinder 100mL
- 1* thermometer

Safety:

Be sure to keep your hands away from your face and mouth. Always wash your hands before leaving the lab. KOH is caustic. Avoid direct skin contact with KOH. Dispose of any waste materials at the end of the Lab.

Procedure:

1. Record the temp of room temp water bath in **Data Table 1**.
2. Label 3 paper towels as follows: 1a, 2a, 3a. These numbers will correspond to the respirometers of the same numbers.
3. Fill the graduated cylinder with 50mL of water. Count out 25 germinating pea seeds and place them into the water in the graduated cylinder. Record the total volume of seeds and water inside the cylinder in **Data Table 1**. Subtract the initial 50mL from the final total volume. This is the volume of the 25 germinating pea seeds. Record this value in **Data Table 1** under **Volume of Germinating Peas, Respirometer 1a**. Pour out the water from the graduated cylinder and place the 25 germinating seeds on paper towel 1a.
4. Fill the graduated cylinder with 50mL of water. Count out 25 dry pea seeds and place them into the water in the graduated cylinder. Drop plastic beads into the graduated cylinder until the total volume (peas and beads) equals the final volume from **Step 3**.

Ap Biology Lab 5 Answers

Kim Magloire, Princeton Review (Firm)

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