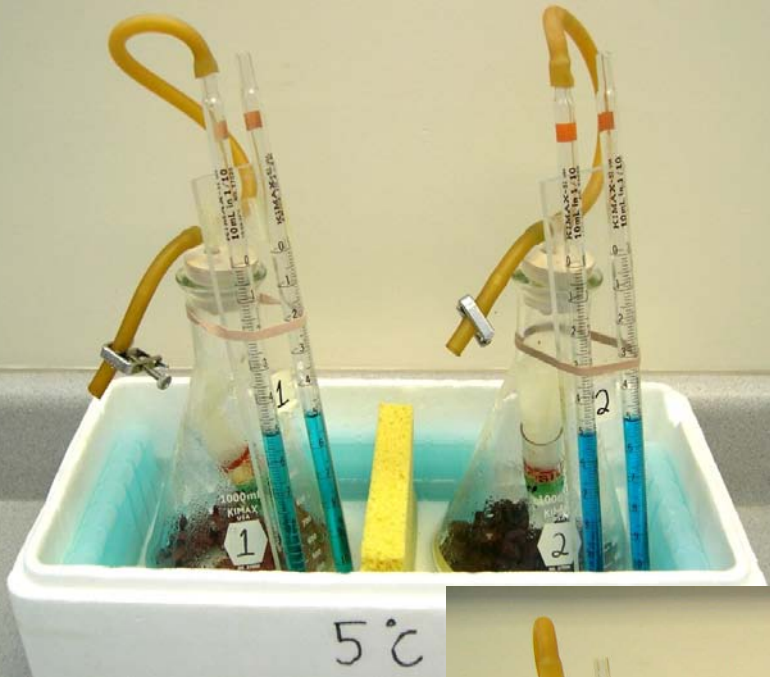


What caused the phenol red solution to turn yellow in the tube with no cap (or with the hole in the cap)?

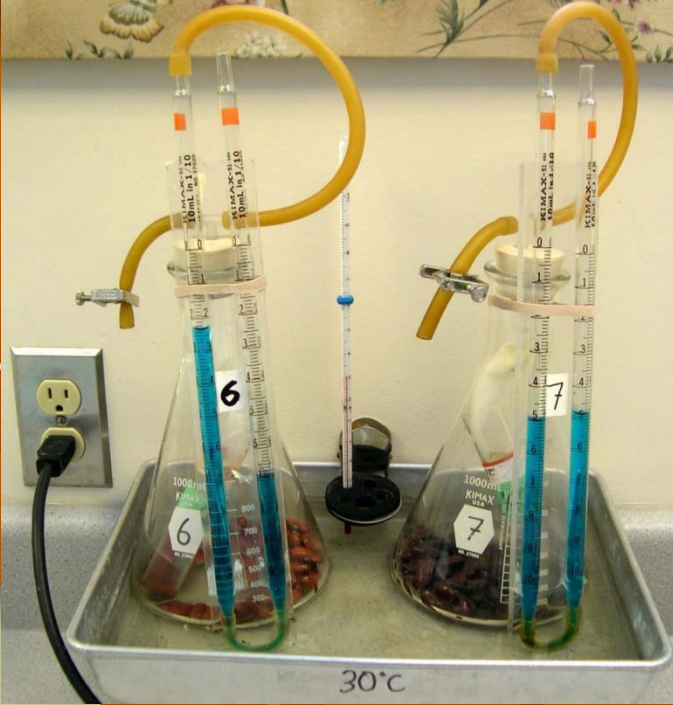
**Carbon dioxide is a byproduct of respiration**

Respiration

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What caused the blue liquid to move up the left pipette in flasks #3 and 6?



Why do we need “control” flasks with dead beans in each water bath?



Why is there a test tube containing 20% KOH in each flask?

## Oxygen & temperature effects on respiration

Respiration

Why did the submerged beans respire less?



**Oxygen & temperature effects on respiration**

Respiration

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Which part of the corn stained pink with tetrazolium?

What does this indicate?



**Seed viability**

Respiration



Write the summary equation for respiration to show why the thermos containing live seed was warmer than the one containing dead seed.

## Heat liberated during respiration

Respiration



State the main function of the organelles indicated:

- A = Chloroplast
- B = mitochondria
- C = vacuole

## Plant cell model

Respiration