



# Respiration

1. Select and draw the apparatus in the box below. Use annotations to explain why this particular apparatus was selected.

- 2. Describe and explain the results for experiment 1.**  
**Use the word bank below to help you.**

The soaked beans begin to germinate and carry out \_\_\_\_\_.

As they respire they produce \_\_\_\_\_ which can be measured on the  
\_\_\_\_\_ as an increase in \_\_\_\_\_.

- 3. Describe and explain the results for experiment 2.**  
**Use the word bank below to help you.**

The \_\_\_\_\_ in the boiled beans have been denatured.

\_\_\_\_\_ requires enzymes and as they are denatured, no  
\_\_\_\_\_ is produced by the beans. However, dead beans begin to rot and  
\_\_\_\_\_ break them down. The \_\_\_\_\_ kills many of  
the microbes but not all, and those that are left \_\_\_\_\_ producing  
\_\_\_\_\_.

- 4. Describe and explain the results for experiment 3.**  
**Use the word bank below to help you.**

The \_\_\_\_\_ disinfectant will kill all of the microbes so they can no longer  
\_\_\_\_\_, and so no \_\_\_\_\_ will be produced. This is shown by no  
\_\_\_\_\_ in temperature.

## Word Bank

enzymes    respiration    heat    disinfectant    microbes    increase  
decrease    temperature    thermometer    soaked beans  
boiled beans    denatured    killed    strong    weak