



Lesson 1

ANSWER KEYS

Reading Checks

 **READING CHECK** **Gather Information** How did both the Redi and Pasteur experiments prove there was no such thing as spontaneous generation?

Both experiments showed that flies/bacteria did not appear when meat/broth was sealed inside a container. Flies/bacteria only appeared from outside, when the meat/broth was exposed.

 **READING CHECK** **Cite Textual Evidence** Why do living things need water, food, and space to live?

Living things need water for cells to function and work. Food provides the energy living things need. Space allows living things to get their food and water.

 **READING CHECK** **Determine Central Ideas** The paws of the arctic fox are covered in thick fur. How does this help the fox maintain homeostasis?

It helps the fox to keep its internal body temperature stable by helping its feet retain heat even though the temperature of the fox's surroundings changes.

Figure 2

Characteristics of Living Things

Figure 2 All living things share certain characteristics.

SEP Analyze What is the one characteristic that all living things and only living things have in common?

They are all made of cells.

Figure 3

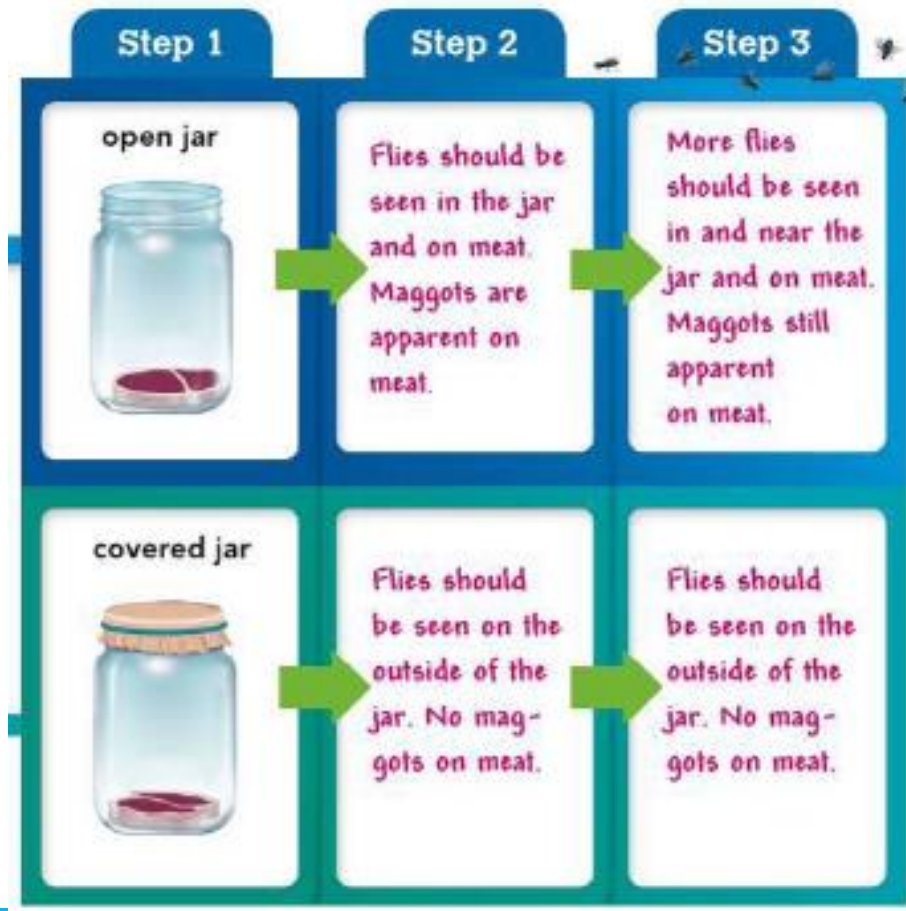


Figure 4

Pasteur's Experiment

Figure 4 Pasteur carefully controlled his experiment.

1. **Relate Text to Visuals** ✎ Draw and label the flasks in steps 2 and 3. Label the control and experimental flasks.

2. **Draw Conclusions**
What did the bacterial growth in Step 3 confirm for Pasteur?

that living things arise from living things

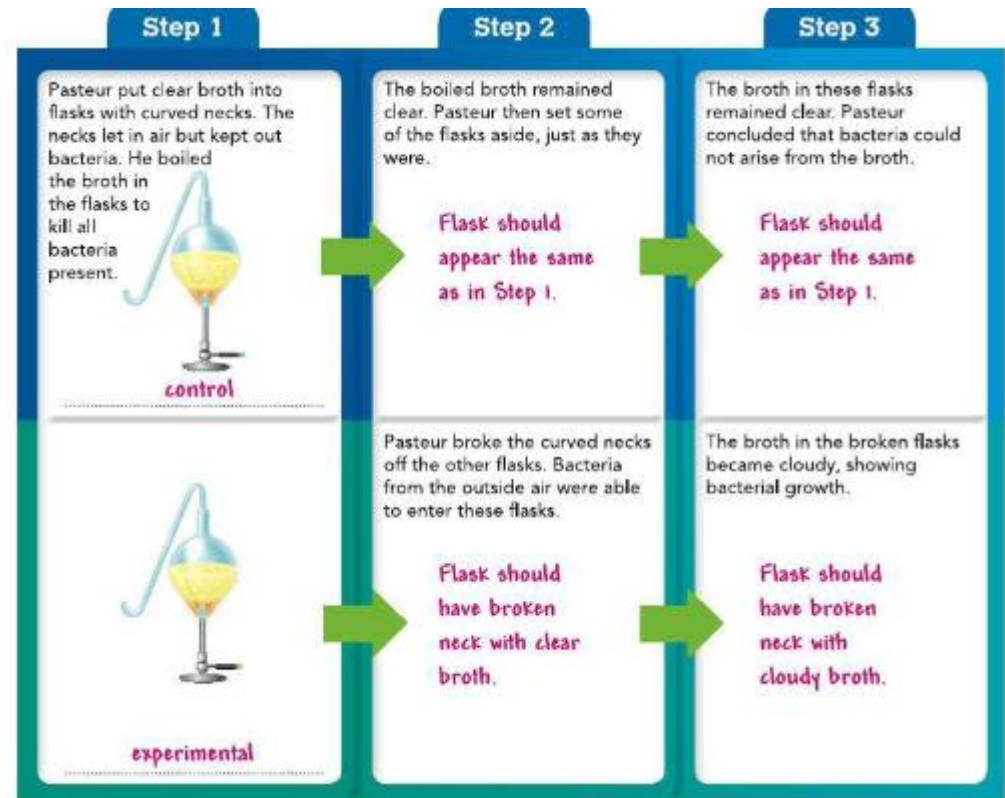
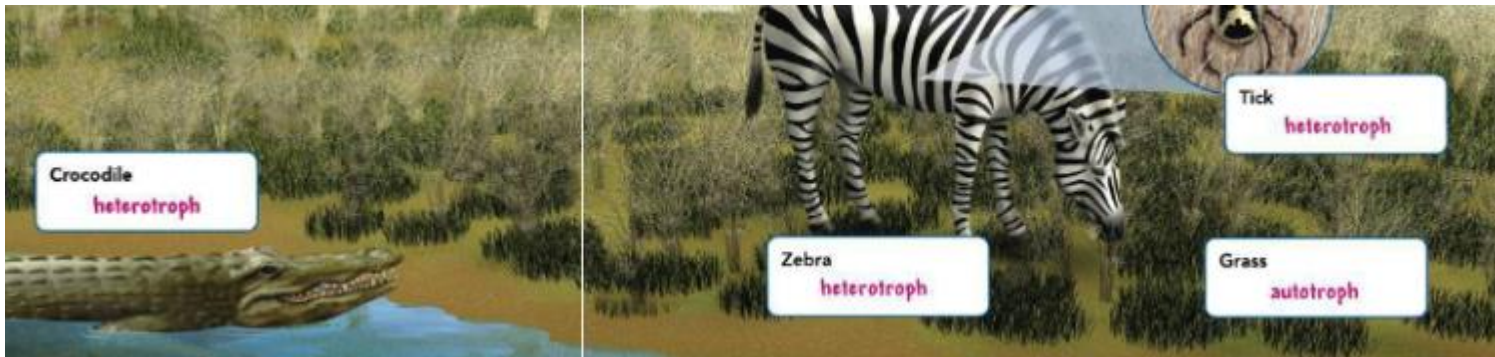


Figure 5 & 6



Salty Sneezes

Figure 6 As they eat underwater plants, marine iguanas maintain homeostasis by sneezing out salty liquid.

CCC Energy and Matter

Which basic need is an iguana meeting by feeding on underwater plants?

getting energy by eating food