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# Exploring Biology in the Laboratory 3rd Edition

## Pendarvis Test Bank

### Chapter 1 The Starting Point: Understanding the Scientific Method

1. Short answer: Describe characteristics and the role of different members of the termite society.

ANS:

The vast majority of members in a termite colony are wingless, sterile, and blind workers. They are milky white in color and possess hard-chewing mouth parts. Workers look after the eggs and nymphs, feed the soldiers and reproductive forms, build and maintain the colony, and forage for food. The workers are responsible for the telltale signs of termite damage. Soldiers are also wingless, sterile, and blind. This caste has a milky-white body with a yellowish-brown head and prominent mandibles. Soldiers defend the colony, mostly from ants. The reproductives, also called the royal caste, consist of the king and queen. Their only function is to reproduce. The royal caste is dark brown in color and has functional eyes. The queen seems to be striped because the segments of her abdomen are distended. Swarming termites are called alates or swarmers. They are winged reproductives that eventually establish new nests.

PTS: 1 REF: Ex. 1.1 Check Your Understanding  
TOP: Chapter 1 Assessment

2. Short answer: Termites use pheromones for communication. Give several alternate examples for the use of pheromones.

ANS:

Specific pheromones are used in mating, producing an alarm, keeping nymphs from forming reproductive castes, and establishing a trail. Termites use the trail hormones when they are attempting to lure other termites to follow them to a food source or other region of interest.

PTS: 1 REF: Ex. 1.1 Check Your Understanding  
TOP: Chapter 1 Assessment

3. Short answer: Restate your hypothesis. Was your hypothesis rejected or accepted? Why?

ANS:

This answer will vary. The majority of students will state, "As the temperature decreases, the breathing rate of goldfish will decrease."

PTS: 1 REF: Ex. 1.2 Check Your Understanding  
TOP: Chapter 1 Assessment

4. Short answer: Discuss how your group's results compared with the results of the entire class.

ANS:

This answer will vary.

PTS: 1 REF: Ex. 1.2 Check Your Understanding  
TOP: Chapter 1 Assessment

# Exploring Biology In The Lab Chapter 14 Answers

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**Exploring Biology In The Lab Chapter 14 Answers:**

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