

Study Guide

Food Science & Technology

Directions: Read chapter 4, and answer the following questions. Later, you can use this study guide to review.

1. What is science, and how is it related to technology?

2. Describe five ways science and technology have expanded the food supply.

3. Name three packaging systems that keep food from spoiling.

4. Explain how genetic engineering works.

5. Explain the difference between enriched and fortified foods. Give an example of each.

6. What are functional foods?

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Chapter 4 Study Guide (continued)

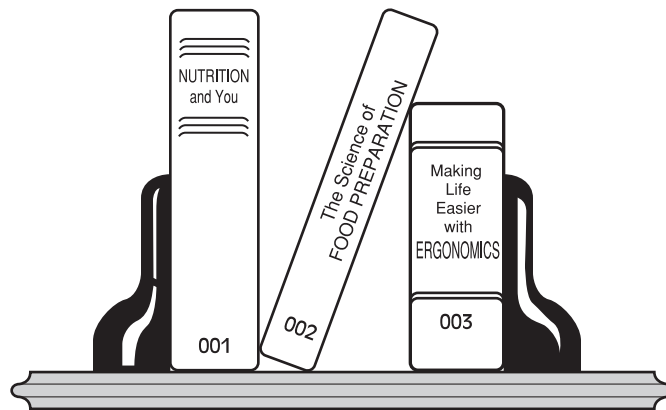
7. Name the three categories of functional foods, and give an example of each.

8. What is ergonomics?

9. How can science and technology improve meal preparation for families?

Activity 1**Food Science & Technology****Science & Technology to the Rescue**

Directions: Students have been having problems. Happily there are three books in class that can help them deal with these problems. Each book relates to an area of food science and technology. Read each situation below. Decide which of the books would be most helpful in that situation. Write the call number of that book in the blank provided.



- _____ 1. Teresa had a stiff neck from bending over the trash can to peel potatoes.
- _____ 2. Frank could not figure out why his iced tea tasted bitter.
- _____ 3. Tanisha wondered why calcium had been added to the orange juice she always drank.
- _____ 4. The sink was too low for Devon, who is six feet one, so Laura had to wash the dishes.
- _____ 5. Callie's grandmother told her she shouldn't eat those new fangled soyburgers.
- _____ 6. Theo's fruit salad looked unappealing because the bananas and apples turned dark.
- _____ 7. Teri wondered if it was safe to store the milk packaged in an aseptic box on the shelf.
- _____ 8. Patrick dropped the pot of hot water because the handles were too small to grip.
- _____ 9. Janine's pudding tasted good but was lumpy. She wondered why.

Activity 2

Food Science & Technology

GMOs

Directions: Genetically modified organisms, or GMOs, are controversial when it comes to food. Some people see them as a wonderful way to expand the food supply and feed the hungry. However, others see them as forms of food that may cause health problems or damage to the environment. List the advantages and disadvantages of genetically engineered food. Then talk to two people, and find out if they think GMOs should be identified on food labels and why.

1. Advantages:

2. Disadvantages:

3. Opinion of person #1:

4. Opinion of person #2:
