

ACTIVITY

Food Technology

Directions: Read the paragraphs below about food technology. Select the terms from the chapter that fit BEST in each numbered space. Write each term in the numbered answer blanks.

Technology helps farmers boost their production. Technology also helps manufacturers process food to suit various needs, and it helps food distributors store and transport food quickly and safely. All these factors make more food available for you. Thus, technology increases your food choices.

For example, poor soil or growing conditions that might limit crop yields are not a problem on farms that use the (1) method of growing vegetables. This technology involves planting vegetables indoors in a nutrient-rich solution rather than in soil. Another technology breakthrough has resulted from scientific discoveries about (2), which are the blueprints in living cells that carry information about specific traits. Scientists and farmers have applied this technology to develop foods with the most desirable qualities.

Once food is produced, the next step is (3), which includes methods of preparing and handling food for safety, nutrition, convenience, and appeal. A major goal of people who work at this stage of bringing food from the farm to the table is to lengthen (4), which is the length of time foods stay safe and appealing to eat. In addition to the standard methods of accomplishing this—freezing, canning, and drying—some companies pass food through radiant energy to kill some forms of disease-causing bacteria. This high-technology method of preservation is called (5).

Often, substances are added to foods during processing to make them safer, more appealing, or more nutritious. The added substances are called (6). Some of these substances increase nutrition value through (7), which means adding back nutrients lost during processing. Other substances are used for (8). In other words, these substances add nutrients that aren't naturally present in the food. Both the food industry and government share responsibility for the safe use of these substances. The food industry researches the safety of a substance. The (9), a government agency, evaluates the research results.

- 1. _____
- 2. _____
- 3. _____
- 4. _____
- 5. _____
- 6. _____
- 7. _____
- 8. _____
- 9. _____

ACTIVITY

Food on Your Table

Directions: Decide to which part of the farm-to-table process each of the following events belongs. On the lines provided in front of each event, write the part of the process that the event describes: *Production, Processing, Distribution, Marketing, or Consuming.*

- | | |
|-------|--|
| _____ | 1. Mr. Nakamura feeds the fish on his fish farm. |
| _____ | 2. Halona buys catfish for her dinner. |
| _____ | 3. Marlin is a food researcher who is working to develop ideas for new food products. |
| _____ | 4. Oranges are cleaned and sorted by large machines. |
| _____ | 5. Nim sets up a display of fresh corn in the produce section of the supermarket where he works. |
| _____ | 6. Mrs. Ruiz pours herself a bowl of cereal. |
| _____ | 7. Part of Sara’s job involves checking the number of boxes of canned goods stored in a warehouse. |
| _____ | 8. James designs newspaper ads to promote food products. |
| _____ | 9. Green beans are cleaned, packaged, and frozen for resale. |
| _____ | 10. Food is shipped from the processing plant to a distributor. |

Directions: Decide whether the government or the food industry has responsibility for each of the following actions to keep food safe. On the lines provided in front of each action, write G for government or F for food industry to indicate responsibility.

- | | |
|-------|--|
| _____ | 11. Carry out regulations for food safety. |
| _____ | 12. Set standards for food labels. |
| _____ | 13. Decide what is and is not a safe use of pesticides. |
| _____ | 14. Provide information about food safety to consumers. |
| _____ | 15. Determine which food additives can be used. |
| _____ | 16. Set up hot lines to which consumers can report food safety problems. |

Continued

Food on Your Table continued

_____ 17. Watch over restaurants and grocery stores to make sure that food safety regulations are followed.

_____ 18. Set regulations and standards for food safety.

Directions: Complete each statement below by writing in the missing word or words in the space provided.

19. The government and the food industry share responsibility for keeping food safe at all points from _____ to _____.

20. It is your responsibility to stay informed and handle food safely from the time _____ to the time _____.

Directions: On the lines below, list at least three reasons for world hunger.

21. _____

Directions: Complete each statement below by writing in the missing word or words in the space provided.

22. In every country, _____ (some/most) people go hungry. In some parts of the world, _____ (some/most) people go hungry.

23. Identify one approach to solving world hunger described in the text. Explain why you do or do not think this approach will work. _____

