1. What is the ***Key Concept*** for section 1-5? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Main Idea: Your \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the health of the environment depend on your knowledge of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Fill in the mind map with three ways that biology affects your health and the world around you.

The world around you

Importance of biology

Your health

4.

3.

2.

7.

6.

5.

Main Idea: Biotechnology offers great promise but also raises many \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

8. Define *biotechnology* in your OWN words: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

9. Define *ethics*. You may have to use outside sources. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10-11. Use the chart below to list the benefits of biotechnology, as well as the risks and ethical concerns about biotechnology.

|  |  |
| --- | --- |
| Benefits | Risks and Ethical Concerns |
|  |  |

Main idea: Biology presents many \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

What questions do *YOU* have about biology or scientific research? After reading page 31, list three topics in biology that you want to learn more about.

12. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

14. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Vocabulary Check- Choose the answer that best completes each sentence.

\_\_\_\_\_15. *Biotechnology* is technology based on

a. geological processes. c. living things and biological processes.

b. astronomical events. d. computer modeling.

\_\_\_\_\_16. A *transgenic* organism is one that

a. already exists in nature.

b. has been developed through genetic manipulation.

c. developed when two species reproduced together in nature.

d. exists only as a computer model, but not in real life.

17. Give three examples of ways in which biology can help inform everyday decisions.

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18. Scientists disagree on whether genetically modified foods (GMOs) are safe to eat. What type of scientific evidence would be needed to show that a genetically modified food is unsafe?

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19. Go to your online student edition of the text and go to “interactive review” and then on “self- checks”. Take the 1-5 Self-Check Quiz and record your score below. Write out missed questions or if you did not miss any, write out the most difficult one.

\_\_\_\_\_\_\_\_\_\_ / \_\_\_\_\_\_\_\_