

Microorganisms Study Guide with Answers

Name _____

Date _____

S5L4. Students will relate how microorganisms benefit or harm larger organisms.

- a. Identify beneficial microorganisms and explain why they are beneficial.
- b. Identify harmful microorganisms and explain why they are harmful.

<p>1. _____ is an organism that is made up of many cells.</p> <p>Multi-celled organism</p>	<p>2. A/an _____ is a living thing that is too small to be seen with an unaided eye.</p> <p>Microorganism</p>
<p>3. A/an _____ is any living thing.</p> <p>Organism</p>	<p>4. A/an _____ only has one cell.</p> <p>Single-celled organism</p>
<p>5. Where can microorganisms live?</p> <p>in soil in water in humans</p>	<p>6. List the microorganisms we discussed.</p> <p>bacteria mold protists fungi</p>
<p>7. What makes up the largest group of microorganisms?</p> <p>bacteria</p>	<p>8. Is it true that many more microorganisms help people than harm them?</p> <p>true</p>
<p>9. Which microorganism makes penicillin?</p> <p>fungi</p>	<p>10. Why is penicillin considered helpful?</p> <p>It is a medicine used to kill bacteria that cause diseases.</p>
<p>11. Why is phytoplankton considered helpful?</p> <p>They produce at least half of the oxygen in the air.</p>	<p>12. List additional ways some microorganisms are helpful.</p> <p>Some can make certain types of food. Some can help us digest our food. Some can make dead things decay.</p>

<p>13. Why are Salmonella and E. Coli considered harmful bacteria?</p> <p>They can make you very sick.</p>	<p>14. List additional ways microorganisms can be harmful.</p> <p>They can cause ringworm They can kill crops They can spoil food</p>
<p>15 - 19 If all the helpful microorganisms disappeared, what would be six effects? Choose ONLY six. There would be...</p> <p>Fewer medicines to fight diseases Fewer fish to eat Fewer plants to eat No yogurt, cheese, or bread to eat Dead organisms would be everywhere Much less oxygen to breathe</p>	
<p>20. How can decay caused by microorganisms be both harmful and helpful?</p> <p>Decay caused by microorganisms can be harmful because it can cause food to spoil, which would make us sick if we eat it. Decay can be helpful because it would keep dead plants and animals from building up all over Earth.</p>	