

Name: _____

Microorganisms Menu

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.

Introduction (Choose ONE activity from this column)	Helpful or Harmful Bacteria? (Choose ONE introduction activity then complete BOTH sets of questions for harmful and helpful bacteria)	Product (Choose ONE)
<p>CHOICE ONE Go to http://www.bbc.co.uk/bitesize/ks2/science/living_things/ and scroll down to 'Microorganisms.' In this order, read the notes section and in your journal, write down six facts you learned. These MUST be written with complete sentences. Then, take the quiz. If you don't make at least an 80%, re-read the notes and re-take the quiz. Following that, you may play the review game.</p>	<p>INTRODUCTION CHOICE ONE Introduction to sorting bacteria (you must complete the ENTIRE activity): http://www.sciencekids.co.nz/gamesactivities/microorganisms.html As you're working, make a list of which bacteria are helpful and which are harmful, and justify why they are helpful/harmful. You may make this list in your science journal.</p>	<p>CHOICE ONE Wanted posters are a very efficient means of catching criminals because they warn people. They (hopefully) bring criminals to justice, and they show the community who the criminals are. The same can be true of announcing/advertising for good people who are wanted because they are beneficial to the community. For this activity, you will create two wanted posters, but instead of doing this for people, it will be for microorganisms. One poster will be a "wanted" poster to help capture a bad bacteria, and the other poster will be a "wanted" poster to locate/advertise a good bacteria. If you choose this task, see your teacher to get the details about what your posters must include and how you will be assessed.</p>
<p>CHOICE TWO Log into your personal account on Brain Pop www.brainpop.com and watch the video about bacteria. In your journal, write down six facts that you learned while watching the video. These MUST be written with complete sentences. Following that, take the classic quiz.</p>	<p>INTRODUCTION CHOICE TWO Read the <i>Science Weekly</i> newspaper about microorganisms. Then, answer all the questions on the back page. You must bring your completed questions to the teacher to get this checked off.</p>	<p>CHOICE TWO Create an iMovie trailer to advertise a movie that features both harmful and helpful bacteria. You must include some harmful effects, some helpful benefits, and include AT LEAST 5</p>

<p>If you don't make at least an 80%, re-read the notes and re-take the quiz. Following that, you may go to 'Game Up' and play the 'Microbes' game.</p>		<p>facts you learned about bacteria and microorganisms. Be creative!</p>
<p>CHOICE THREE Using the Web sites below, answer these questions in your science journal. YOU MUST ANSWER WITH COMPLETE SENTENCES.</p> <ul style="list-style-type: none"> . What do bacteria look like? . What are the three basic shapes? . How are bacteria classified? Name the two large classes. . Where have bacteria been located? Name as many places as possible. . How many bacteria live on Earth? . What do bacteria eat? How do they take in their food? <p>http://www.biology4kids.com/files/micro_bacteria.html</p> <p>http://easyscienceforkids.com/bacteria-good-guy-or-bad-guy/</p> <p>http://www.childrensuniversity.manchester.ac.uk/interactives/science/microorganisms/</p>	<p>HELPFUL BACTERIA QUESTIONS (MUST COMPLETE) Using the websites below, answer each of the following questions with complete sentences. Answer these in your science journal.</p> <p>Helpful: Questions</p> <ul style="list-style-type: none"> . Name some helpful bacteria. . How are bacteria helpful to humans? Give at least four examples. . How do bacteria help keep ecosystems healthy? . What do bacteria do that is especially helpful to plants? <p>Helpful Bacteria Websites (You may use other ones, too!) Friend or Foe Microbes working for us What Microbes do</p>	<p>CHOICE THREE Do you have another way you'd like to prove your knowledge about microorganisms? See your teacher to present your idea.</p>
	<p>HARMFUL BACTERIA QUESTIONS (MUST COMPLETE) Harmful: Questions</p> <ul style="list-style-type: none"> . Where do these harmful bacteria usually live? . Describe how bacteria can cause food poisoning. . Give two examples of bacteria that cause disease. Include their names and how the bacteria spread. . How can these diseases be prevented? <p>Harmful Bacteria Websites (You may use other ones, too!) Pathogenic bacteria Strep Disease Foodborne Microorganisms</p>	

[Food Poisoning
bacteria](#)