

MISSION BRIEFING: Mission Log

TEACHER VERSION

TEACHER DIRECTIONS: Ask the students to fill in the **CLUE** column as they proceed through the mission.

Question	Answer
In the Arora II spacecraft, you learn of an outbreak of disease in Prokaryon. What type of disease is it?	diarrheal
In the CyNN news article, a news crawler appears at the bottom of the story. It tells of a fringe group who are demanding the closure of the refugee camp. What is the name of this fringe group?	Areloch
Before arriving in Prokaryon, Eureka helps you review the Germ Theory first proposed by Louis Pasteur. What is this theory?	germs (microorganisms) cause infectious diseases
Eureka also shows you information on Joseph Lister, a surgeon who believed in the Germ Theory and therefore insisted that doctors do what?	wash their hands and sterilize their instruments
In reviewing the infectious agents, you learn there are six types. Name four of these.	bacteria, viruses, prions, protozoa, fungi, helminthes
In the animation of bacteria, you learn that they are categorized according to shape--rod, sphere, or spiral. What are the three different shapes called?	bacilli, spirilla, cocci
Upon arriving in Prokaryon, Sirius shows you a graph of diarrhea cases. How does the graph indicate an epidemic is occurring?	It shows a dramatic increase in the number of diarrhea cases.
In the lab, Beta shows you what the wiggling menace looks like. What is the name of the wiggling menace?	<i>Vibrio cholerae</i>
After looking at the fecal slides, Beta shows you an animation on cholera. Describe the type of stool found in cases of cholera.	rice-water stool is the type of stool in cholera
In what body part does <i>V. cholera</i> colonize or grow?	cholera grow or colonize in the small intestines
What is the treatment for cholera?	the treatment for cholera is oral rehydration solution (ORS)
After determining that the two possible sources of contamination are tomatoes and water, Eureka is reminded of a mysterious cholera epidemic in which maps were used to pinpoint a water pump as the source of contamination. Who was the physician who solved this mystery?	Dr. John Snow
In order to verify the source of the contamination, a case control study is performed. In this study, a comparison is made between those who got sick with cholera and what other group of people?	patients who did not get sick with cholera
What ends up being the source of contamination? The tomatoes or the lake water?	the lake water
At the end, Beta and Sirius say that the epidemic can be stopped if the refugees do what two things?	stop using the lake water and wash their hands after going to the bathroom

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Name _____ Class _____ Date _____

STUDENT INSTRUCTIONS: Record your observations by finding the clue that correctly matches each description. Write down the clues as you proceed through the mission.

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