

***MISSION BRIEFING* Correlation with Standards**

National Science Education Content Standard Correlation Grades 5-8

Instructional Objectives “Perils in Prokaryon”	Science Content Standard
<ul style="list-style-type: none"> • Apply the scientific method to the investigation of a mystery disease. • Analyze and interpret epidemiological data – maps, graphs, and patient profiles – to reach a hypothesis about a disease. 	<p><u>Science as Inquiry</u></p> <p>Content Standard A: All students should:</p> <ol style="list-style-type: none"> 1. develop abilities necessary to do scientific inquiry 2. understand about scientific inquiry
<ul style="list-style-type: none"> • Associate the bacterium, <i>Vibrio cholerae</i>, with the disease it causes – cholera. • Classify bacteria into each of three basic shapes: bacilli, spirilla, and cocci. • Relate the importance of Germ Theory to our understanding of present-day diseases. 	<p><u>Life Science</u></p> <p>Content Standard C: All students should develop an understanding of:</p> <ol style="list-style-type: none"> 1. structure and function in living systems 2. reproduction and heredity 3. regulation and behavior 4. population and ecosystems 5. diversity and adaptations of organisms
<ul style="list-style-type: none"> • Recognize the interaction between population, resources, and the environment. • Identify the symptoms of cholera. • Determine the treatment for cholera. • Describe the best ways to prevent the spread of cholera (sanitation and hygiene). • Recognize the health risks associated with a collapse of infrastructure caused by natural hazards such as earthquakes or floods. 	<p><u>Science in Personal and Social Perspectives</u></p> <p>Content Standard F: All students should develop understandings of:</p> <ol style="list-style-type: none"> 1. personal health 2. populations, resources, and environment 3. natural hazards 4. risks and benefits 5. science and technology in society

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Instructional Objectives “Perils in Prokaryon” (con’t.)	Science Content Standard (con’t.)
<ul style="list-style-type: none">• Describe what epidemiologists do.• Recognize the name John Snow and associate his contributions to the early field of epidemiology.• Associate Robert Koch, Louis Pasteur, and Joseph Lister with their contributions to Germ Theory.• Observe the cooperation required by various individuals, with different areas of expertise in scientific investigation.	<p><u>History and Nature of Science</u></p> <p>Content Standard G: All students should develop understandings of:</p> <ol style="list-style-type: none">1. science as a human endeavor2. nature of science3. history of science
<ul style="list-style-type: none">• Summarize the storyline.	