

MISSION BRIEFING Correlation with Standards

National Health Standard Correlation Grades 6-8

Instructional Objectives “Orientation at O.R.B.”	Health Content Standard
<ul style="list-style-type: none"> Simulate an experiment demonstrating Koch's Postulates 	NA
<ul style="list-style-type: none"> Apply the steps of Koch's Postulates to the identification of a disease. 	Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.
<ul style="list-style-type: none"> Identify the six types of infectious agents and their characteristics. 	Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.
<ul style="list-style-type: none"> Describe the role of the immune system in fighting diseases. 	Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.
<ul style="list-style-type: none"> Associate modes of transmission with each type of pathogen. 	Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health. Standard 5: Students will demonstrate the ability to use decision-making skills to enhance health.
<ul style="list-style-type: none"> Distinguish different treatments and preventatives most effective for each pathogen. 	Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health. Standard 5: Students will demonstrate the ability to use decision-making skills to enhance health.
<ul style="list-style-type: none"> Match types of pathogens to the specific disease they cause. 	Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.
<ul style="list-style-type: none"> Recognize the name Robert Koch and his contributions to Germ Theory. 	NA
<ul style="list-style-type: none"> Summarize the storyline 	NA

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Instructional Objectives “Peril in Prokaryon”	Health Content Standard
<ul style="list-style-type: none"> Apply the scientific method to the investigation of a mystery disease. 	<p>Standard 5: Students will demonstrate the ability to use decision-making skills to enhance health.</p>
<ul style="list-style-type: none"> Analyze and interpret epidemiological data—maps, graphs, and patient profiles—to reach a hypothesis about a disease. 	<p>Standard 5: Students will demonstrate the ability to use decision-making skills to enhance health.</p>
<ul style="list-style-type: none"> Associate the bacterium, <i>Vibrio cholerae</i>, with the disease it causes. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Classify bacteria into each of three basic shapes: bacilli, spirilla, and cocci. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Relate the importance of Germ Theory to our understanding of present-day diseases. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Recognize the interaction between population, resources, and the environment. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Identify the symptoms of cholera. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Determine the treatment for cholera. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Describe the best ways to prevent the spread of cholera (sanitation and hygiene). 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p> <p>Standard 5: Students will demonstrate the ability to use decision-making skills to enhance health.</p>

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<ul style="list-style-type: none">Recognize the health risks associated with a collapse of infrastructure caused by natural disasters such as earthquakes or floods.	Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.
<ul style="list-style-type: none">Describe what epidemiologists do.	NA
<ul style="list-style-type: none">Recognize the name John Snow and his contributions to the early field of epidemiology.	NA
<ul style="list-style-type: none">Associate Robert Koch, Louis Pasteur, and Joseph Lister with their contributions to Germ Theory.	NA
<ul style="list-style-type: none">Observe the cooperation required by individuals with different areas of expertise in scientific investigation.	NA
<ul style="list-style-type: none">Summarize the storyline.	NA

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Instructional Objectives “Nemesis in Neuropolis”	Health Content Standard
<ul style="list-style-type: none"> Apply the scientific method to the investigation of a mystery disease. 	<p>Standard 5: Students will demonstrate the ability to use decision-making skills to enhance health.</p>
<ul style="list-style-type: none"> Identify the two major structures of a virus, and know their functions. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Summarize the process of viral reproduction in a host cell. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Associate the virus, <i>Variola major</i>, with the disease it causes - smallpox. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Describe how smallpox vaccine is produced. 	<p>NA</p>
<ul style="list-style-type: none"> Describe ways to prevent the spread of smallpox (quarantine, vaccine, health warnings, and previous illness). 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p> <p>Standard 5: Students will demonstrate the ability to use decision-making skills to enhance health.</p>
<ul style="list-style-type: none"> Identify the symptoms of smallpox. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Associate Edward Jenner with the early development of the smallpox vaccine. 	<p>NA</p>
<ul style="list-style-type: none"> Summarize the history of smallpox and its current status. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health</p> <p>Standard 2: Students will analyze the influence of family, peers, culture, media, technology and other factors on health behaviors.</p>
<ul style="list-style-type: none"> Summarize the storyline. 	<p>NA</p>

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Instructional Objectives “Malady at Mabufo”	Health Content Standard
<ul style="list-style-type: none"> Conduct a virtual experiment to explain how the malaria parasite is transmitted from mosquitoes to humans. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Relate how the protozoan <i>Plasmodium</i> interacts with the human body and the <i>Anopheles</i> mosquito to cause malaria. . 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Describe the symptoms and treatment for malaria. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Describe ways to prevent the spread of malaria (mosquito control and anti-malarial drugs). 	<p>Standard 5: Students will demonstrate the ability to use decision-making skills to enhance health.</p>
<ul style="list-style-type: none"> Comprehend the prevalence and worldwide problem of controlling malaria. 	<p>Standard 1: Students will comprehend concepts related to health promotion and disease prevention to enhance health.</p>
<ul style="list-style-type: none"> Associate specific scientists--Laveran, Ross, and Manson-- with the early investigations into the cause and transmission of malaria. 	<p>NA</p>
<ul style="list-style-type: none"> Summarize the storyline. 	<p>NA</p>