

## History of Vaccines Standards Correlation

The following standards apply to History of Vaccines learning resources.

Learning Resources	Correlating Standards
How Vaccines Work Activity	<p><b>National Science Education Standards Unifying Concepts and Processes:</b> Evidence, models, and explanation; Form and function; <b>Science as Inquiry:</b> Understanding of scientific concepts; <b>Life Science:</b> The cell, Behavior of organisms; <b>Science in Personal and Social Perspectives:</b> Personal and community health <b>National Health Education Standards Standard 1:</b> Students will comprehend concepts related to health promotion and disease prevention. <b>ISTE National Education Technology Standards 1. Creativity and Innovation</b> Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students: c. use models and simulations to explore complex systems and issues.</p>
Timelines	<p><b>National Science Education Standards Unifying Concepts and Processes:</b> Evidence, models, and explanation; Change, constancy and measurement; Evolution and equilibrium; Form and function; <b>Science and Technology:</b> Understanding about science and technology ; <b>Science in Personal and Social Perspectives:</b> Science and technology in local, national, and global challenges; <b>History and Nature of Science:</b> Science as a human endeavor, Nature of scientific knowledge, Historical perspectives <b>National Health Education Standards Health Education Standard 1:</b> Students will comprehend concepts related to health promotion and disease prevention. <b>ISTE National Education Technology Standards 1. Creativity and Innovation</b> Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students: c. use models and simulations to explore complex systems and issues.</p>
The Scientific Method Activity	<p><b>National Science Education Standards Science as Inquiry: Abilities necessary to do scientific inquiry, Understandings about scientific inquiry;</b> <b>Life Science:</b> The cell, Biological evolution, Behavior of organisms; <b>Science in Personal and Social Perspectives:</b> Personal and community health, Science and technology in local, national, and global challenges; <b>History and Nature of Science:</b> Science as a human endeavor, Nature of scientific knowledge <b>National Health Education Standards Health Education Standard 5:</b> Students will demonstrate the ability to use decision-making skills to enhance health. <b>ISTE National Education Technology Standards 1. Creativity and Innovation</b> Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students: c. use models and simulations to explore complex systems and issues.</p>
Illsville: Fight the Disease	<p><b>National Science Education Standards Unifying Concepts and Processes:</b> Form and function; <b>Science as Inquiry: Abilities necessary to do scientific inquiry, Understandings about scientific inquiry;</b> <b>Life Science:</b> The cell, Interdependence of organisms, Behavior of organisms; <b>Science in Personal and Social Perspectives:</b> Personal and community health, Science and technology in local, national, and global challenges; <b>History and Nature of Science:</b> Science as a human endeavor, Nature of scientific knowledge, Historical perspectives <b>National Health Education Standards Health Education Standard 5:</b> Students will demonstrate the ability to use decision-making skills to enhance health. <b>Health Education Standard 7:</b> Students will demonstrate the ability to practice health-enhancing behaviors and avoid or reduce health risks. <b>ISTE National Education Technology Standards 1. Creativity and Innovation</b> Students demonstrate creative thinking, construct knowledge, and</p>

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	develop innovative products and processes using technology. Students: a. apply existing knowledge to generate new ideas, products, or processes. b. create original works as a means of personal or group expression. c. use models and simulations to explore complex systems and issues. d. identify trends and forecast possibilities.
Lesson Plan: Using the History of Vaccines in the Classroom	<p><b>National Science Education Standards Unifying Concepts and Processes:</b> Systems, order, and organization; Evidence, models, and explanation; Form and function; <b>Science as Inquiry:</b> Understandings about scientific inquiry; <b>Life Science:</b> The cell, Biological evolution, Behavior of organisms; <b>Science and Technology:</b> Understanding about science and technology; <b>Science in Personal and Social Perspectives:</b> Personal and community health, Science and technology in local, national, and global challenges; <b>History and Nature of Science:</b> Science as a human endeavor, Nature of scientific knowledge, Historical perspectives <b>National Health Education Standards Health Education Standard 1:</b> Students will comprehend concepts related to health promotion and disease prevention. <b>Health Education Standard 3:</b> Students will demonstrate the ability to access valid information, products, and services to enhance health. <b>ISTE National Education Technology Standards 1. Creativity and Innovation</b> Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students: a. apply existing knowledge to generate new ideas, products, or processes. b. create original works as a means of personal or group expression. c. use models and simulations to explore complex systems and issues. d. identify trends and forecast possibilities. <b>3. Research and Information Fluency</b> Students apply digital tools to gather, evaluate, and use information. Students: a. plan strategies to guide inquiry. b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media. c. evaluate and select information sources and digital tools based on the appropriateness to specific tasks. d. process data and report results. <b>4. Critical Thinking, Problem Solving, and Decision Making</b> Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. Students: a. identify and define authentic problems and significant questions for investigation. b. plan and manage activities to develop a solution or complete a project. c. collect and analyze data to identify solutions and/or make informed decisions. d. use multiple processes and diverse perspectives to explore alternative solutions.</p>
Lesson Plan: Viruses and Evolution	<p><b>National Science Education Standards Unifying Concepts and Processes:</b> Systems, order, and organization; Evidence, models, and explanation; Evolution and Equilibrium; Form and function <b>Science as Inquiry:</b> Abilities necessary to do scientific inquiry; Understandings about scientific inquiry <b>Life Science:</b> The cell, The molecular basis of heredity, Biological evolution, Behavior of organisms <b>Science and Technology:</b> Understanding about science and technology <b>Science in Personal and Social Perspectives:</b> Personal and community health, Science and technology in local, national, and global challenges <b>History and Nature of Science:</b> Science as a human endeavor, Nature of scientific knowledge, Historical perspectives <b>National Health Education Standards Health Education Standard 1:</b> Students will comprehend concepts related to health promotion and disease prevention. <b>Health Education Standard 3:</b> Students will demonstrate the ability to access valid information, products, and services to enhance health. <b>ISTE National Education Technology Standards 1. Creativity and Innovation</b> Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students: a. apply existing knowledge to generate new ideas, products, or processes. b. create original works as a means of personal or group expression. c.</p>

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	<p>use models and simulations to explore complex systems and issues. d. identify trends and forecast possibilities. <b>3. Research and Information Fluency</b> Students apply digital tools to gather, evaluate, and use information. Students: a. plan strategies to guide inquiry. b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media. c. evaluate and select information sources and digital tools based on the appropriateness to specific tasks. d. process data and report results. <b>4. Critical Thinking, Problem Solving, and Decision Making</b> Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. Students: a. identify and define authentic problems and significant questions for investigation. b. plan and manage activities to develop a solution or complete a project. c. collect and analyze data to identify solutions and/or make informed decisions. d. use multiple processes and diverse perspectives to explore alternative solutions.</p>
Lesson Plan: The Scientific Method in the History of Vaccines	<p><b>National Science Education Standards Unifying Concepts and Processes:</b> Systems, order, and organization; Evidence, models, and explanation; Evolution and equilibrium <b>Science as Inquiry:</b> Abilities necessary to do scientific inquiry; Understandings about scientific inquiry <b>Science and Technology:</b> Understanding about science and technology <b>Science in Personal and Social Perspectives:</b> Personal and community health, Science and technology in local, national, and global challenges <b>History and Nature of Science:</b> Science as a human endeavor, Nature of scientific knowledge, Historical perspectives <b>National Health Education Standards Health Education Standard 1:</b> Students will comprehend concepts related to health promotion and disease prevention. <b>Health Education Standard 2:</b> Students will demonstrate the ability to access valid information, products, and services to enhance health. <b>Health Education Standard 4:</b> Students will analyze the influence of culture, media, technology, and other factors on health. <b>ISTE National Education Technology Standards 1. Creativity and Innovation</b> Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students: a. apply existing knowledge to generate new ideas, products, or processes. b. create original works as a means of personal or group expression. c. use models and simulations to explore complex systems and issues. d. identify trends and forecast possibilities. <b>3. Research and Information Fluency</b> Students apply digital tools to gather, evaluate, and use information. Students: a. plan strategies to guide inquiry. b. locate, organize, analyze, evaluate, synthesize, and ethically use information from a variety of sources and media. c. evaluate and select information sources and digital tools based on the appropriateness to specific tasks. d. process data and report results. <b>4. Critical Thinking, Problem Solving, and Decision Making</b> Students use critical thinking skills to plan and conduct research, manage projects, solve problems, and make informed decisions using appropriate digital tools and resources. Students: a. identify and define authentic problems and significant questions for investigation. b. plan and manage activities to develop a solution or complete a project. c. collect and analyze data to identify solutions and/or make informed decisions. d. use multiple processes and diverse perspectives to explore alternative solutions.</p>
Lesson Plan: How Vaccines Work	<p><b>National Science Education Standards Unifying Concepts and Processes:</b> Systems, order, and organization; Evidence, models, and explanation; Form and function <b>Science as Inquiry:</b> Abilities necessary to do scientific inquiry; Understanding of scientific concepts <b>Life Science:</b> The cell <b>Science and Technology:</b> Understandings about science and technology <b>Science in Personal and Social Perspectives:</b> Personal</p>

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	<p>and community health; Science and technology in local, national, and global challenges</p> <p><b>National Health Education Standards</b></p> <p><b>Health Education Standard 1:</b> Students will comprehend concepts related to health promotion and disease prevention.</p> <p><b>Health Education Standard 2:</b> Students will demonstrate the ability to access valid information, products, and services to enhance health.</p> <p><b>Health Education Standard 3:</b> Students will demonstrate the ability to access valid information, products, and services to enhance health.</p> <p><b>Health Education Standard 4:</b> Students will analyze the influence of culture, media, technology, and other factors on health.</p> <p><b>Health Education Standard 6:</b> Students will demonstrate the ability to use goal-setting and decision-making skills to enhance health.</p> <p><b>ISTE National Education Technology Standards 1. Creativity and Innovation</b> Students demonstrate creative thinking, construct knowledge, and develop innovative products and processes using technology. Students: c. use models and simulations to explore complex systems and issues.</p>