

Standards Alignment: Invent It Challenge



Smithsonian Institution

ISTE NETS*S Standards http://www.iste.org/standards/standards-for-students	Next Generation Science Standards http://www.nextgenscience.org	National Health Standards from the Society of Health and Physical Education http://www.shapeamerica.org/standards/health/	21st Century Learning Standards www.p21.org	Common Core State Standards for English Language Arts www.corestandards.org	STEAM www.steamedu.com
<p>1. Creativity and Innovation</p> <p>2. Communication and Collaboration</p> <p>3. Research and Information Fluency</p> <p>4. Critical Thinking, Problem Solving, and Decision Making</p>	<p>Engineering Design</p> <p>A. Define</p> <p>B. Develop Solutions</p> <p>C. Optimize</p>	<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> <p>Standard 3: Students will demonstrate the ability to access valid information and products and services to enhance health.</p>	<p>Learning and Innovation Skills</p> <ul style="list-style-type: none"> • Creativity and Innovation • Critical Thinking and Problem Solving • Communication and Collaboration <p>Information, Media and Technology Skills</p> <ul style="list-style-type: none"> • Information Literacy • Media Literacy • ICT (Information, Communications and Technology) Literacy <p>Life and Career Skills</p> <ul style="list-style-type: none"> • Initiative and Self-Direction • Productivity and Accountability 	<p><u>CCSS.ELA-Literacy.CCRA.W.4</u> Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.</p> <p><u>CCSS.ELA-Literacy.CCRA.W.6</u> Use technology, including the Internet, to produce and publish writing and to interact and collaborate with others.</p> <p><u>CCSS.ELA-Literacy.CCRA.W.7</u> Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.</p> <p><u>CCSS.ELA-Literacy.CCRA.W.8</u> Gather relevant information from multiple print and digital sources, assess the credibility and accuracy of each source, and integrate the information while avoiding plagiarism.</p> <p><u>CCSS.ELA-Literacy.CCRA.W.9</u> Draw evidence from literary or informational texts to support analysis, reflection, and research.</p> <p><u>CCSS.ELA-Literacy.CCRA.SL.5</u> Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations.</p>	<p>Science</p> <ul style="list-style-type: none"> • Conduct scientific inquiry through Spark!Lab inventing steps <p>Technology</p> <ul style="list-style-type: none"> • conduct online research • communicate an invention idea through a digital presentation <p>Engineering</p> <ul style="list-style-type: none"> • solve a problem • design an invention • build a prototype <p>Arts</p> <ul style="list-style-type: none"> • imagine and sketch an Invention • create a 3-D prototype <p>Math</p> <ul style="list-style-type: none"> • measure and create a scale model of invention • analyze data to refine invention