

How Cognitive Skills Relate to Hawaii Content and Performance Standards



Reading:

Cognitive Skill	Application to HCPS	BrainWare Safari Exercises Developing the Skill
<p><i>Sustained Attention</i> – the ability to stay on task for a sustained period of time.</p>	<p>Reading a passage for comprehension requires sustained attention. If attention is not sustained, parts of the passage may not be processed or understood.</p>	<p>Most BrainWare Safari exercises work on sustained attention, including <i>Iguana Lookout, Jungle Labyrinth, Rhythm Ribbet, and Slithering Symbols.</i></p>
<p><i>Visual Sequential Memory</i> – the ability to recall a sequence of bits of information in the same order as originally received.</p>	<p>After reading a short passage, “Explain, in clear and precise detail, the problem or conflict in the story and how it is resolved.”</p>	<p><i>Arrow Point Bridge, Bear Shuffle, Rhythm Ribbet and Slithering Symbols</i> are exercises that work on visual sequential memory.</p>
<p><i>Conceptual Thinking</i> – the ability to recognize a collection of features that go together to create an idea or category of ideas.</p>	<p>A question which asks students to “explain main ideas or events that develop the author’s message or underlying theme.”</p>	<p><i>Ancient Logic and Reasoning</i> and <i>Llama Logic</i> help develop conceptual thinking skills.</p>

There are many cognitive skills involved in learning as well as being tested on what one has learned. This document provides examples of how the Hawaii Content and Performance Standards place demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the HCPS. These are simply examples for illustration. BrainWare Safari is a product of Learning Enhancement Corporation. It is a comprehensive program that develops 41 cognitive skills in a fun and entertaining video game format. For more information, contact Learning Enhancement Corporation at www.BrainWareforYou.com or 877-BRAIN-10 (877-272-4610). Examples taken from Hawaii Content and Performance Standards materials, grades 3-5.

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Mathematics:

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<p>Visualization – the ability to recall an image of what has been seen and to mentally manipulate and change aspects of that image in the mind.</p>	<p>A question which asks students to “predict the three-dimensional figure that will result from folding a given two-dimensional net of the figure.”</p>	<p>Most BrainWare Safari exercises develop visualization skills. Such exercises include Cave Comparisons, Piranha Pass, Web Weaving, and Whispering Waterfall.</p>
<p>Oculomotor – the ability to use the eyes efficiently to read and gather information from the environment.</p>	<p>Shown a series of shapes, a question which asks students to “classify shapes as congruent or similar.”</p>	<p>Iguana Lookout, Jungle Labyrinth, Piranha Pass, Sky Scanning and Turtle Recall address oculomotor skills.</p>
<p>Working Memory – the ability to hold information in the mind while performing a mental operation on it.</p>	<p>"How many buses should be reserved if each bus fits 48 students, and there are 570 students attending the field trip?"</p>	<p>Bear Shuffle, Cave Comparisons, Memory Mountain and Tree Tic-Tac-Toe are among the exercises that improve working memory skills.</p>

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Science:

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<p>Visual Discrimination – the ability to distinguish differences.</p>	<p>Shown a series of pictures, a question in which students must compare the structures of the different organisms shown that help them to survive.</p>	<p>BrainWare Safari exercises that develop visual discrimination include Cave Comparisons, Jumping Jaguar Flash, Sky Scanning and Volcanic Patterns.</p>
<p>Reasoning – the ability to form concepts and solve problems using unfamiliar information.</p>	<p>A question which asks students to describe how processes such as volcanoes and earthquakes shape and reshape the surface of the Earth.</p>	<p>Ancient Logic and Reasoning and Piranha Pass are two of the exercises that develop reasoning skills.</p>
<p>Logic – the ability to reason and think rationally and analytically.</p>	<p>A question which asks students to “explain why constellations remain the same, yet appear to move across the night sky.”</p>	<p>Llama Logic and Tree Tic-Tac-Toe are two of the exercises that develop logic skills.</p>

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