

How Cognitive Skills Relate to **South Dakota** Functional Learning Standards



Reading:

Cognitive Skill	Application to Learning Standards	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>A question which asks students to “tell/retell stories in sequence.”</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 “Identify the problem or central idea in stories.”</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 Functional Learning Standards place demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the Functional Learning Standards. 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 South Dakota department of education Functional Learning Standards materials.

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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 “recognize and create a variety of sets and patterns using symbols.”</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>A question in which students must “identify and describe geometric objects in the environment and describes their position (e.g. next to top, bottom, near, far, up, down, below, etc.).”</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>A question in which students must “solve a problem containing multiple variables” using mental math.</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>A question which asks students to “classify objects by their physical properties.”</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 weather and seasonal changes affect plants, animals and their surroundings” in a given situation.</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 “identify relationships between structures and functions within an organism.”</p>	<p>Llama Logic and Tree Tic-Tac-Toe are two of the exercises that develop logic skills.</p>

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