

## How Cognitive Skills Relate to Utah Core Curriculum Standards and Objectives



### Reading:

Cognitive Skill	Application to TIPS questions	BrainWare Safari Exercises Developing the Skill
<p><b><i>Sustained Attention</i></b> – 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 <b><i>Iguana Lookout, Jungle Labyrinth, Rhythm Ribbet, and Slithering Symbols.</i></b></p>
<p><b><i>Visual Sequential Memory</i></b> – the ability to recall a sequence of bits of information in the same order as originally received.</p>	<p>After reading a short passage on a gardening procedure, “What was the last thing Mike did?”</p>	<p><b><i>Arrow Point Bridge, Bear Shuffle, Rhythm Ribbet and Slithering Symbols</i></b> are exercises that work on visual sequential memory.</p>
<p><b><i>Conceptual Thinking</i></b> – the ability to recognize a collection of features that go together to create an idea or category of ideas.</p>	<p>After reading a passage, a question which asks, “This story is mostly about—?”</p>	<p><b><i>Ancient Logic and Reasoning and Llama Logic</i></b> 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 Utah core curriculum places demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the Utah core curriculum standards and benchmarks. 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](http://www.BrainWareforYou.com) or 877-BRAIN-10 (877-272-4610). Examples taken from TIPS sample items grades 2-3 (Reading), grades 2-4 (Math) and grades 4-6 (Science).

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### Mathematics:

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<p><b>Visualization</b> – 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>Shown a series of figures, a question which asks, “Which drawing shows a flip? (reflection)”</p>	<p>Most BrainWare Safari exercises develop visualization skills. Such exercises include <b>Cave Comparisons, Piranha Pass, Web Weaving,</b> and <b>Whispering Waterfall.</b></p>
<p><b>Oculomotor</b> – the ability to use the eyes efficiently to read and gather information from the environment.</p>	<p>Shown a diagram of a butterfly and ruler, “Jessica is using an inch ruler to measure the wingspan of a butterfly. What is the measure of the wingspan of the butterfly?”</p>	<p><b>Iguana Lookout, Jungle Labyrinth, Piranha Pass, Sky Scanning</b> and <b>Turtle Recall</b> address oculomotor skills.</p>
<p><b>Working Memory</b> – the ability to hold information in the mind while performing a mental operation on it.</p>	<p>“Jeremy walked 4 miles a day for 5 days. How many miles did he walk?”</p>	<p><b>Bear Shuffle, Cave Comparisons, Memory Mountain</b> and <b>Tree Tic-Tac-Toe</b> are among the exercises that improve working memory skills.</p>

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### Science:

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<p><b>Visual Discrimination</b> – the ability to distinguish differences.</p>	<p>A question in which students must read a chart or graph tests visual discrimination.</p>	<p>BrainWare Safari exercises that develop visual discrimination include <b>Cave Comparisons</b>, <b>Jumping Jaguar Flash</b>, <b>Sky Scanning</b> and <b>Volcanic Patterns</b>.</p>
<p><b>Reasoning</b> – the ability to form concepts and solve problems using unfamiliar information.</p>	<p>“Jose pours water into a clear cup of soil. He sees air bubbles coming out of the water as it sinks into the soil. Where are the air bubbles coming from?”</p>	<p><b>Ancient Logic and Reasoning</b> and <b>Piranha Pass</b> are two of the exercises that develop reasoning skills.</p>
<p><b>Logic</b> – the ability to reason and think rationally and analytically.</p>	<p>“Predict what might happen to a river when heavy rains soak the soil near it.”</p>	<p><b>Llama Logic</b> and <b>Tree Tic-Tac-Toe</b> are two of the exercises that develop logic skills.</p>

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