

## How Cognitive Skills Relate to **Arizona** Instrument to Measure Standards Questions



### Reading:

Cognitive Skill	Application to AIMS 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>“According to the passage, what should you do just before serving your Worms in Dirt?”</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 short passage and being presented with a series of literary genres, “Which of these genres describes ‘A Tired Tale?’”</p>	<p><b><i>Ancient Logic and Reasoning</i></b> and <b><i>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 AIMS test places demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the AIMS test. 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 AIMS sample test questions and Arizona Standards materials, grades 4-6.

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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 pair of figures, a question which asks, “Which of the following best represents only a translation (slide) up [of the figures]?”</p>	<p>Most BrainWare Safari exercises develop visualization skills. Such exercises include <b>Cave Comparisons, Piranha Pass, Web Weaving, and 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>“Which of the following represents a model of a cube?”</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>“Mr. Veno’s class of 17 students collected canned goods for charity. Each student collected 29 cans. What was the total number of cans collected?”</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 test question which asks students to “compare structures in plants (e.g., roots, stems, leaves, flowers) and animals (e.g., muscles, bones, nerves) that serve different functions in growth and survival” from a series of pictures.</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>A question which asks students to “compare possible solutions to best address an identified need or problem.”</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>A question which asks students to “form a logical argument about a correlation between variables or sequence of events (e.g., construct a cause-and-effect chain that explains a sequence of events).”</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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