

## How Cognitive Skills Relate to Idaho Standards Achievement Test Questions



### Reading:

Cognitive Skill	Application to ISAT Questions	BrainWare Safari Exercises Developing the Skill
<p><b>Sustained Attention</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</i></b>, <b><i>Jungle Labyrinth</i></b>, <b><i>Rhythm Ribbet</i></b>, and <b><i>Slithering Symbols</i></b>.</p>
<p><b>Visual Sequential Memory</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, a question which asks, “What did James and Cathy buy just before they took the bus to the zoo?”</p>	<p><b><i>Arrow Point Bridge</i></b>, <b><i>Bear Shuffle</i></b>, <b><i>Rhythm Ribbet</i></b> and <b><i>Slithering Symbols</i></b> are exercises that work on visual sequential memory.</p>
<p><b>Conceptual Thinking</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, a question which asks, “What is the main theme of this passage?”</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 ISAT places demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the ISAT. 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 sample ISAT items and science standards (grades 4-5).

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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>Given a figure and a series of manipulated figures, “Which of these shows a flip?”</p>	<p>Most BrainWare Safari exercises develop visualization skills. Such exercises include <b>Cave Comparisons</b>, <b>Piranha Pass</b>, <b>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 an angle drawn on a protractor, a question which asks, “What is the measure of angle PQR?”</p>	<p><b>Iguana Lookout</b>, <b>Jungle Labyrinth</b>, <b>Piranha Pass</b>, <b>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>“Juan had 24 crayons. He lost 10 of them. How many crayons does Juan have now?”</p>	<p><b>Bear Shuffle</b>, <b>Cave Comparisons</b>, <b>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 which asks students to use a graph or chart to read and interpret data.</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 in which students must “explain the changes caused by heating and cooling materials” when given an experimental procedure.</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 “explain how the shape or form of an object or system is frequently related to its use or function.”</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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