

How Cognitive Skills Relate to Ohio Achievement Test Questions



Reading:

Cognitive Skill	Application to OAT Questions	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</i>, <i>Jungle Labyrinth</i>, <i>Rhythm Ribbet</i>, and <i>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>“Number the events in John Glenn’s life in the order that they happened.”</p>	<p><i>Arrow Point Bridge</i>, <i>Bear Shuffle</i>, <i>Rhythm Ribbet</i> and <i>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>After reading a short passage, a question which asks, “How are Katie and Sal similar?”</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 Ohio Achievement Test places demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the Ohio Achievement 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 or 877-BRAIN-10 (877-272-4610). Examples taken from released test and sample items grades 3-5 (Reading, Math) and Academic Content Standards materials grades 3-5 (Science).

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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>“Darran made a net of this shape. Which three-dimensional shape can he make from the net?”</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 letters, a question which asks, “Which letter has a pair of parallel line segments?”</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>“Camille buys a pair of shoes for \$15.95. She gives the clerk \$20.00. How much change should Camille receive?”</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 “Compare distinct properties of rocks (e.g., color, layering, texture).”</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 “Record the results and data from an investigation and make a reasonable explanation.”</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 “Analyze a series of events and/or simple daily or seasonal cycles, describe the patterns and infer the next likely occurrence.”</p>	<p>Llama Logic and Tree Tic-Tac-Toe are two of the exercises that develop logic skills.</p>

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