

How Cognitive Skills Relate to **Oklahoma** Core Curriculum Test Questions



Reading:

Cognitive Skill	Application to CCT Questions	BrainWare Safari Exercises Developing the Skill
<p>Sustained Attention – 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>Visual Sequential Memory – the ability to recall a sequence of bits of information in the same order as originally received.</p>	<p>After reading a passage, a question which asks, “Which event happened first?”</p>	<p><i>Arrow Point Bridge, Bear Shuffle, Rhythm Ribbet</i> and <i>Slithering Symbols</i> are exercises that work on visual sequential memory.</p>
<p>Conceptual Thinking – 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 problem in the story?”</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 CCT places demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the CCT. 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 Core Curriculum Test released items grades 3-4 and state science 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>“Which 2 shapes could be put together to make the shape above?”</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 diagram of a barn and silo on a line with distances marked, “The barn and the silo are on a straight road. Which is closest to the distance from the barn to the silo?”</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>“The temperature at lunchtime was 60 °F. At bedtime, the temperature had dropped 35 °F. What was the temperature at bedtime?”</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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Visual Discrimination – the ability to distinguish differences.	A question in which students must “use observable properties to classify a set of objects or organisms.”	BrainWare Safari exercises that develop visual discrimination include Cave Comparisons, Jumping Jaguar Flash, Sky Scanning and Volcanic Patterns .
Reasoning – the ability to form concepts and solve problems using unfamiliar information.	A question which addresses the idea that “living organisms have the capacity to produce populations of infinite size, but environments and resources limit population size.”	Ancient Logic and Reasoning and Piranha Pass are two of the exercises that develop reasoning skills.
Logic – the ability to reason and think rationally and analytically.	A question in which students must identify how “changes in environmental conditions can affect the survival of individual organisms and/or entire species.”	Llama Logic and Tree Tic-Tac-Toe are two of the exercises that develop logic skills.

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