

## How Cognitive Skills Relate to **California** Standards Test Questions



### Reading:

Cognitive Skill	Application to CST 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</i></b>, <b><i>Jungle Labyrinth</i></b>, <b><i>Rhythm Ribbet</i></b>, and <b><i>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>“When making guacamole, what should you do right after you mash the avocado?”</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><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>“Information from <i>all</i> the samples [passages] supports the idea that—?”</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 California Standards Test places demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills nor a thorough analysis of the CST. 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 California Standards Tests released test questions, Grade 4 (Math and Reading) and Grade 5 (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>“Which figure can form a pyramid when folded on the dotted lines without overlapping?”</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 tally charts did Pietro use to make this graph?”</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>“Royce has a bag with 8 red marbles, 4 blue marbles, 5 green marbles, and 9 yellow marbles of the same size. If he pulls out 1 marble without looking, which color is he most likely to choose?”</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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<b>Visual Discrimination</b> – the ability to distinguish differences.	“What characteristics do all these birds share? Which are different?”	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> .
<b>Reasoning</b> – the ability to form concepts and solve problems using unfamiliar information.	“Why are most fossils found in sedimentary rocks?”	<b>Ancient Logic and Reasoning</b> and <b>Piranha Pass</b> are two of the exercises that develop reasoning skills.
<b>Logic</b> – the ability to reason and think rationally and analytically.	“The skin patterns of snakes shown most likely reflect differences in the snakes’—?”	<b>Llama Logic</b> and <b>Tree Tic-Tac-Toe</b> are two of the exercises that develop logic skills.

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