

## How Cognitive Skills Relate to Georgia Criterion-Referenced Competency Test Questions



### Reading:

| Cognitive Skill   | Application to CRCT Questions  | BrainWare Safari Exercises Developing the Skill  |
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| <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>After reading a short passage on the life of Amelia Earhart, “What was Amelia’s final career?”</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 passage, “What is the main idea of this passage?”</p>   | <p><b><i>Ancient Logic and Reasoning and 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 Georgia Criterion-Referenced Competency Test places demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the CRCT. 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 released test questions grade 4 (Reading), grades 3-4 (Math) and grade 3 (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>Shown a series of figures, “Which 2 SHAPES below can you put together to make the larger shape shown above?”</p>  | <p>Most BrainWare Safari exercises develop visualization skills. Such exercises include <b>Cave Comparisons, Piranha Pass, 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 two shaded figures, “Mr. Johnson’s class put 2 jars outside of the school to measure rainfall. How full are both jars together?”</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>“Andrea and her class went on a trip to the museum. It costs Andrea \$2.50 for her student pass to the museum. It costs her teacher, Ms. Linn, \$4.25 for an adult pass into the museum. How much more did Ms. Linn have to pay than Andrea?”</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.                           | A question in which students must read a chart or graph would test visual discrimination.                    | 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. | Given a series of possible explanations, “Which tells why metal pans for cooking often have wooden handles?” | <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.                      | “Near her school, Michelle found a tree with red fruit. She wonders what the fruit tastes like. She should—” | <b>Llama Logic</b> and <b>Tree Tic-Tac-Toe</b> are two of the exercises that develop logic skills.   |

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