

## How Cognitive Skills Relate to Louisiana Educational Assessment Program Questions



### Reading:

Cognitive Skill	Application to LEAP 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, 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 passage, a question which asks students to identify which event in the story happened first.</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 a short passage, “What was the author’s main purpose in writing 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 LEAP places demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the LEAP. 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 Louisiana Department of Education released and sample LEAP test items, Grade 4.

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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 of the following shows the flag above turned 90° clockwise?”</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>Shown a figure composed of shapes, “Which shape appears most often in this design?”</p>	<p><b>Iguana Lookout, Jungle Labyrinth, Piranha Pass, Sky Scanning and 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>“Crystal opened a new package of stickers. She gave 6 stickers to each of her 3 friends. She has 12 stickers left for herself. How many stickers were in the package?”</p>	<p><b>Bear Shuffle, Cave Comparisons, Memory Mountain and 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>“Which drawing below would represent the flagpole’s shadow at 5:00 P.M.?”</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>“On a field in a wooded area, you see a small, strange object. You wonder whether it is a live animal. The best way to find out is to observe the object to see if it—?”</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 construction company is trying to move 3 large boxes. Box A is on carpet, Box B is on a tile floor, and Box C is on a cement floor. Why would Box B on the tile floor be the easiest to move?”</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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