

How Cognitive Skills Relate to Missouri Assessment Program Questions



Reading:

Cognitive Skill	Application to MAP 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 short passage, a question which asks, “List three events in the story in the order that they happened.”</p>	<p><i>Arrow Point Bridge, Bear Shuffle, Rhythm Ribbet and 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 idea of this 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 Missouri Assessment Program places demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the MAP. 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 items and constructed response questions, grades 4-5 (reading), grades 3-5 (science), and grades 3-5 (Math).

How Cognitive Skills Relate to Missouri Assessment Program Questions



Mathematics:

Cognitive Skill	Application to MAP Questions	BrainWare Safari Exercises Developing the Skill
<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>“Study the figure below. What 3-dimensional shape results from folding the figure along the dotted lines?”</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 figures, “Cameron drew a figure with one vertex, one curved face, and at least one flat face. Which figure did Cameron draw?”</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>“A baker makes 14 cakes each day. If he starts baking 14 cakes on Monday, by what day of the week will he have baked 84 cakes all together?”</p>	<p>Bear Shuffle, Cave Comparisons, Memory Mountain and Tree Tic-Tac-Toe are among the exercises that improve working memory 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 Missouri Assessment Program places demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the MAP. 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 items and constructed response questions, grades 4-5 (reading), grades 3-5 (science), and grades 3-5 (Math).

How Cognitive Skills Relate to Missouri Assessment Program Questions



Science:

Cognitive Skill	Application to MAP Questions	BrainWare Safari Exercises Developing the Skill
<p>Visual Discrimination – the ability to distinguish differences.</p>	<p>“Choose two of the dinosaur models to compare. Record the similarities and differences on the Venn diagram. Include at least two similarities and two differences. Be sure to label the Venn diagram with the type of dinosaurs you are comparing.”</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>“Your friend wants to travel to the moon to plant flowers to find out how fast they will grow. Based on what you know about the moon, do you think your friend would be successful growing flowers there?”</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>Shown or asked to provide a simple food chain, “Remove one organism from your food chain and describe the possible affects on the two remaining organisms.”</p>	<p>Llama Logic and Tree Tic-Tac-Toe are two of the exercises that develop logic 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 Missouri Assessment Program places demands on cognitive skills. This is not meant to provide a complete perspective on cognitive skills or a thorough analysis of the MAP. 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 items and constructed response questions, grades 4-5 (reading), grades 3-5 (science), and grades 3-5 (Math).