**Suggestions to Extend Quantitative Reasoning Skills**

Quantitative reasoning skills include high-level problem solving with mathematical computation, quantitative symbols and concepts. Some things you could do to support children’s growth in this area include:

* Identify connections between different math processes
* Discuss and practice using math in other disciplines such as architecture, physics, chemistry
* Use math in real-life such as baking, grocery store, travel planning
* Ask “How could we improve…(the triangle, long division, etc.)?”
* Have students generate a list of questions about the math concept
* Study number systems not based on 10
* Use a variety of problem-solving strategies, such as: make a list, look for a pattern, guess and test, draw a diagram, work backwards
* Have children create their own math problems, number system, or problem-solving strategy
* Practice multi-step math problems
* Ask students to prove their answer to a math problem
* Use open-ended problems and decide what processes should be used and what outcomes are expected
* Teach children to ask “Is this answer reasonable?”
* Ask “What is the chance of (an event) occurring?
* Create charts, tables, graphs to show Social Studies content
* Use data to make predictions for a science experiment
* Ask “What might happen if…?” questions such as: What might happen if the numbers 84 and 95 changed places or circles developed a straight side?
* Create riddles, jokes, cartoons about math concepts
* Use fantasy to discuss math content
* Learn computer programming
* Use the computer program *Study Island* for advanced content
* Participate in such programs as: Georgia State Saturday School, Camp Invention
* Read books that use math content creatively, such as *The Phantom Tollbooth* by Juster
* Use Enrichment Sites on [www.fultongifted.org](http://www.fultongifted.org)
* Use resources such as Gifted and Talented Workbook Series, Creative Learning Press, Creative Teaching Press, Critical Thinking Co.