**ALGEGRAIC HABITS OF MIND**

**Building Rules to Represent Functions**

* Organizing information
* Predicting patterns
* Chunking the information
* Describing a rule
* Different representations
* Describing change
* Justifying a rule

**Abstracting from Computation**

* Computational shortcuts
* Calculating without computing
* Generalizing beyond examples
* Equivalent expressions
* Symbolic expressions
* Justifying shortcuts

**Doing/Undoing**

* Input from output
* Working backward

(*Mark Driscoll*, 2006)