

VI. E. Concept Nodes in Arithmetic and Algebra

Concept Nodes in Arithmetic and Algebra

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The concept of *cat* is associated with a written word, a spoken word, images, experiences, cat noises (purr, meow, growl, etc.), kinds of cats, global categories such as animal that include cats, and more. All of these elements contribute to a cat concept node.

Below is an attempt to show why the process of learning mathematics in general, and arithmetic and algebra in particular, is greatly simplified by ongoing review. With ongoing review, connections within and between all the vast nodes are discovered and reestablished daily, whereas drilling daily on but one obscure corner does nothing. The attempt below shows the central node surrounded by four basic arithmetic/algebraic sub-nodes, numbered to direct an endless clockwise-spiraling path. Each sub-node is further subdivided (moving outward) into its own nodes, each incredibly vast. Two examples are attached. The connections between these ideas crisscross endlessly across the page.

Daily review on a widely-varied salad keeps individual ideas activated in memory so that connections and associations can be made. Memory on individual topics is also enhanced, of course.

