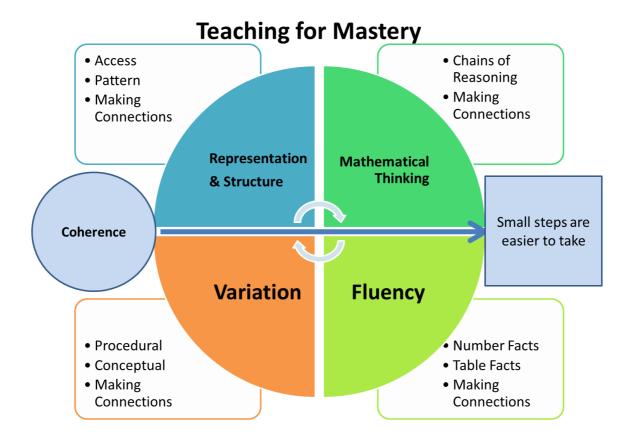


Teaching for Mastery: Mathematical Thinking



Key Messages

- 1. Mathematical thinking is central to deep and sustainable learning of mathematics.
- 2. Taught ideas that are understood deeply are not just 'received' passively but worked on by the student. They need to be thought about, reasoned with and discussed.
- 3. Mathematical thinking involves
 - a. looking for pattern in order to discern structure
 - b. looking for relationships and connecting ideas
 - c. reasoning logically, explaining, conjecturing and proving.

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