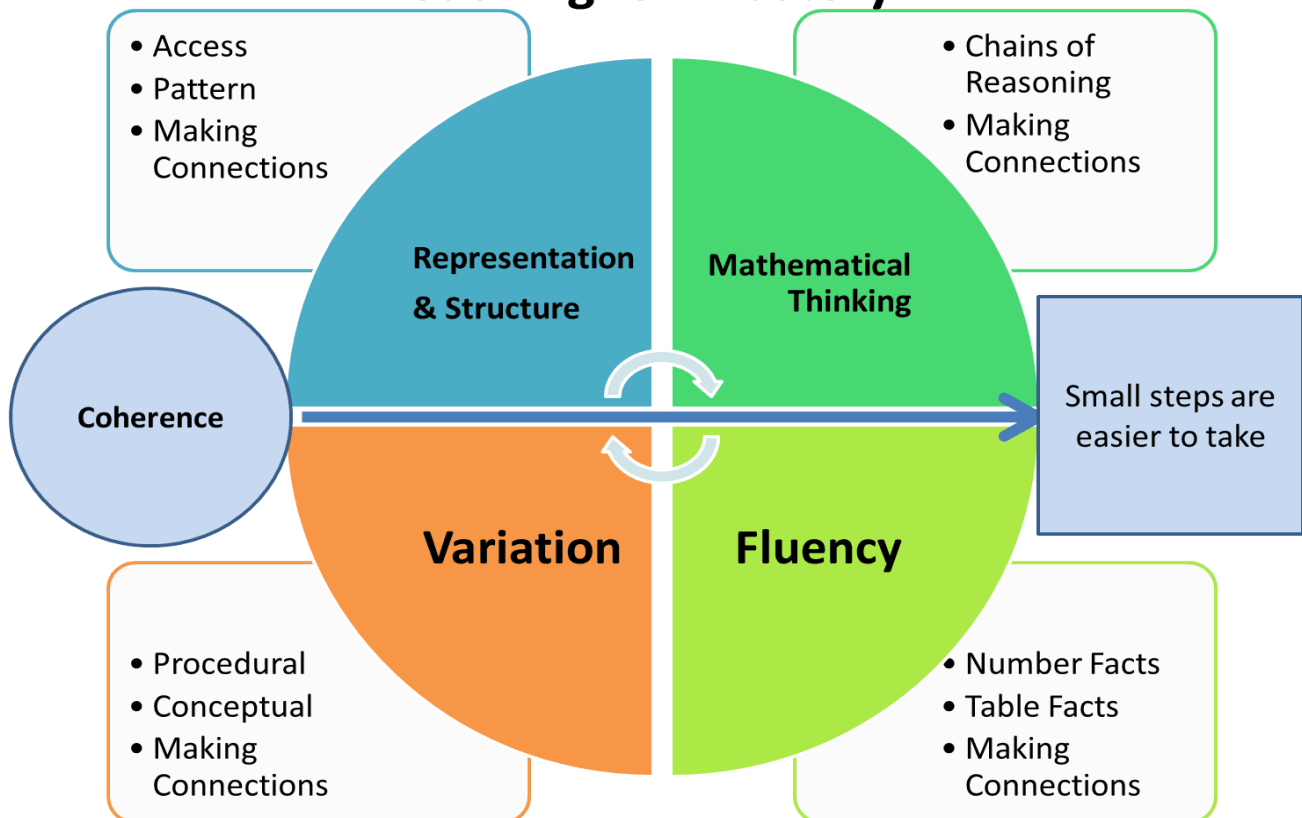


Teaching for Mastery



1. Cohesion

- What do I want the students to achieve?
- What steps must I take to get there?
- What could go wrong and how can I pre-empt this?

2. Representation & Structure

- Which concrete resources (if any) will expose the structure of this concept?
- How can I use CP(I)A effectively to support understanding?
- Have I chosen my questions carefully so that the focus is structure instead of calculation?

3. Variation

- How can I represent this concept differently to prepare students for recognising it in unfamiliar contexts?
- Are my tasks mechanical or do they encourage students to spot connections?
- Do the steps in my lesson connect, building from what's already known to new content?

4. Mathematical Thinking

- What questions might I pose to deepen understanding?
- How have I explored the answer as a starting point?
- Do all students have access to reasoning and problem solving opportunities?

5. Fluency

- Have I provided adequate opportunities for fluency in relation to reasoning and problem solving?
- Do my fluency tasks promote mathematical thinking without abandoning procedural fluency?
- How will I continue to develop fluency outside of the lesson?