

Technology + Singapore Math = Number Sense

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Strengths of the Singapore Math Instructional Approach

- Concrete-Pictorial-Abstract
- Focused concepts and Teacher driven
- Emphasizes mastery of math concepts (understanding)
- Students connect ideas using words and problems
- Daily discussions
- Develops students' ability to think symbolically

Conceptua Math Free Tools support the Singapore Instructional Approach

Conceptua Fractions employs a pedagogical approach that is highly compatible with Singapore Math. Our team has consulted with Singapore math leaders and practitioners to guarantee alignment in our product and support materials.

- Supports visual learning- CPA approach
- Visual models represent many hands on manipulatives
- Facilitates Teacher driven discussions
- Facilitates connecting ideas using words and problems
- De-emphasizes memorization
- Provides consistency in presentation and practice
- Easy and efficiently provide examples using multiple visual representations for any problem
- Moves beyond one right answer to incorporate higher-order thinking

Conceptua Math Free Online Tools

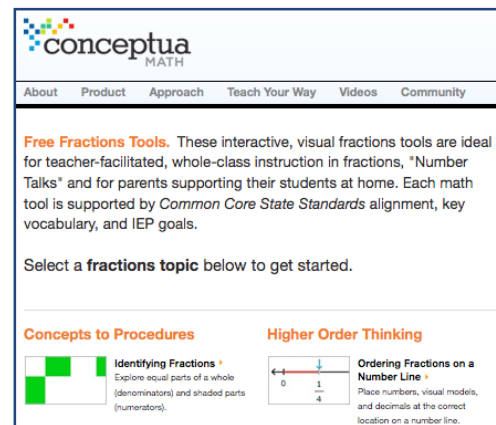
Interactive, visual fractions tools are ideal for teacher-facilitated, whole-class instruction in fractions, "Number Talks" and for parents supporting their students at home. Each math tool is supported by *Common Core State Standards* alignment, key vocabulary, and IEP goals.

Concepts to Procedures Tools

- Models only, models linked to numbers, models and numbers, numbers only

Higher Order Thinking Tools

- Each tool is unique in presentation
- Provides different representations and deeper exploration of a concept
- Students apply knowledge



The screenshot shows the Conceptua Math website. At the top is the logo and navigation links: About, Product, Approach, Teach Your Way, Videos, and Community. Below the navigation is a section titled "Free Fractions Tools" with a description: "These interactive, visual fractions tools are ideal for teacher-facilitated, whole-class instruction in fractions, 'Number Talks' and for parents supporting their students at home. Each math tool is supported by Common Core State Standards alignment, key vocabulary, and IEP goals." Below this is a prompt: "Select a fractions topic below to get started." There are two tool categories: "Concepts to Procedures" and "Higher Order Thinking". Under "Concepts to Procedures" is "Identifying Fractions" with a description: "Explore equal parts of a whole (denominators) and shaded parts (numerators)." Under "Higher Order Thinking" is "Ordering Fractions on a Number Line" with a description: "Place numbers, visual models, and decimals at the correct location on a number line." A small number line diagram is visible next to the description.