In this tutorial we will investigate the foundations and organization of enVisionmath2.0 and see how they support the Common Core State Standards for Mathematics. We will also explore the print and digital resources for teachers and students, and learn about program assessment tools and opportunities for differentiated instruction.
enVisionmath2.0 is a comprehensive mathematics curriculum that is organized to promote Focus on Common Core Clusters, develop Coherence across grade levels, and lay the foundation for Rigor with conceptual understanding.

Standards with a common focus are grouped into clusters. Each cluster focuses on one or more topics to promote conceptual understanding. Major clusters (color-coded green) get the most emphasis. Supporting clusters (color-coded blue) support the major work. And, finally, additional clusters (color-coded yellow) complete the grade-level content.
The cluster wheel provides a visual representation of how lessons, topics, and clusters are organized at each grade level.

For example, the cluster wheel shows that Topics 2 and 3 focus on Major Cluster 1.OA.C, which covers adding and subtracting within 20.

An Essential Question at the beginning of each topic helps students focus on the key ideas. These ideas may apply to a group of consecutive lessons. As students focus on a topic over multiple days, they develop deeper conceptual understanding.

Several elements are included to help students focus on important lesson ideas such as the Show Me! or Convince Me! activities.
Coherence

The program achieves coherence across grades through careful learning progressions. Connections to content taught in previous grades are highlighted in the Coherence part of the Cluster Overview pages. Coherence is also supported by common elements across grades such as thinking habits questions for math practices and bar diagrams for representing quantities in a problem. Coherence across topics, clusters, and domains within a grade is the result of developing the mathematics as a body of interconnected concepts and skills. The Solve-and-Share problem in every lesson supports coherence. It engages learners by connecting prior knowledge to new ideas through a problem-solving experience.
Rigor refers to a balance of the components of conceptual understanding, procedural skill and fluency, and application.

During the Problem-based Learning segment of each lesson, students demonstrate deep conceptual understanding of core math concepts as they solve a problem in which new concepts are embedded. Then, during the Visual Learning segment, those concepts are made explicit through direct instruction that is supported by classroom conversations.

Students learn procedural skills through concrete and pictorial representations, place-value concepts, and properties. Resources are provided to help all students achieve fluency.

Real-world problems are included throughout the lessons, including the Math Practices and Problem Solving lessons, which focus on developing the thinking skills needed to be a good problem solver.

Because it was built around the Common Core, enVisionmath2.0 contains ample support for the Standards for Mathematical Practice.
enVisionmath2.0 provides opportunities during instruction, practice, and assessment for students to focus on specific math practices.
The handbook at the front of the Student Edition provides instruction on math practices and problem solving.
Lesson Instruction

Math practices are embedded and explicitly highlighted in lesson instruction. Comments related to math practices are integrated during problem-based learning. Then the thinking involved in math practices is modeled during direct instruction. A poster and an animation are included for each math practice. You can use these resources anytime throughout core instruction to support your discussion of a specific math practice.
Problems and Assessments

Builds the depth of understanding, fluency, and proficiency with math practices needed for success on high-stakes assessments.

The core instructional model builds the depth of understanding, fluency, and proficiency with math practices needed for success on high-stakes assessments.
Assessments

enVisionmath2.0 offers diagnostic assessment resources to help you discover what students know. Formative assessments are built into lessons to help inform instruction. Various summative assessments include performance-based topic assessments.
Assessment Items

Assessments include multi-step and multi-part items involving selected response and constructed response. Some items also include symbols palettes and technology features such as drag and drop, drop-down menus, graphing, and various on-screen tools.
Assessment Data

Use the assessment data to organize students into groups

A variety of auto-generated reports are available for online assessments. Reports show mastery, progress, and usage data to help you monitor your students’ progress and inform daily instruction. You can use the assessment data to organize students into groups for purposes of making instructional decisions and assigning differentiation resources.
enVisionmath2.0 provides adaptations, accommodations, resources, and differentiated instruction for all learners. Each lesson provides options for differentiation based on data that you collect during daily formative assessments, such as online Quick Checks. You'll find suggestions for students needing Intervention (I), as well as for On-Level (O) and Advanced (A) learners.
Online personalized practice options are available to your students for extra support and homework guidance. Practice Buddy, powered by MathXL® for School, provides on-level content practice for Grades 3 through 5. These exercises have built-in learning aides via a drop-down menu to help provide support. Students can select the type of support they need, including:

- Help Me Solve This,
- View an Example,
- Another Look videos, and
- Visual Learning animations.

Adaptive Homework and Practice Powered by Knewton provides support for students for the Homework and Practice part of each lesson.

Knewton gathers student performance information from the online assessments, Quick Checks, and Practice Tasks and uses that information to intelligently prescribe tasks and content to meet the individual learning needs of each student. The Homework and Practice assignments provide both on-level and prerequisite skills support.

The Adaptive Homework and Practice assignments provide a more productive experience because they are tailored to each student’s needs and understanding. This ensures that students are ready to progress to the next day’s objective. Instructional tasks may include Another Look videos, Visual Learning Animation Plus videos, Reteach to Build Understanding worksheets, and Math Diagnosis and Intervention System 2.0 lessons.
And keep in mind, the more a student uses the prescribed Homework and Practice assignments, the better Knewton gets at adapting to the student’s individual needs.
**Modalities and Ability Level**

Use the Intervention Activity to provide struggling students with visual or hands-on reinforcement of the lesson concepts.

Use the Reteach master to provide a step-by-step method of breaking down problems into manageable portions that students can successfully complete.

Use the Enrichment master to provide advanced students with an additional challenge.

Assign the On-Level and Advanced Activity Centers for homework and practice.

Students can also access and submit their assignments online, use educational games to master concepts, and view additional examples about important lesson ideas in the Another Look Homework Video.
In this tutorial we explored the foundations and organization of the program and how they support the Common Core State Standards for Mathematics. We also explored the print and digital resources for teachers and students, and learned about the program’s assessment tools and opportunities for differentiated instruction.

For additional enVisionmath2.0 tutorials, visit MyPearsonTraining.com.