

## Teaching a Lesson

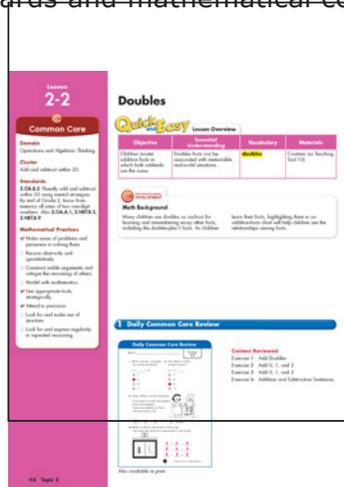
### Introduction

This guide examines teaching a lesson with enVisionMATH® Common Core Savvas Realize™ Edition. It explores the four phases of an enVisionMATH® Common Core lesson as well as the tools, resources, and strategies that you can use in each phase of the lesson.

To follow along, open any one of your Topic Teacher’s Editions to the beginning of a lesson.

### Lesson Overview

Every lesson in enVisionMATH® Common Core begins with an overview of the standards and mathematical concepts that the lesson will address.



Review the Lesson Overview box at the top of the page for key information at a glance, including the lesson’s

- objective;
- Essential Understanding;
- vocabulary; and
- materials.

Embedded professional development gives you essential information about the Math Background for the lesson.

Find information about the Common Core State Standards for Mathematics on the left. This box lists the specific domain, cluster, and content standards addressed in the lesson. Focus on building students’ proficiency on the mathematical practices identified.

## Lesson Structure

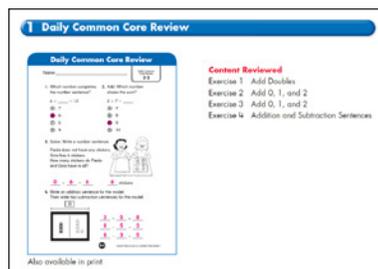
Lessons in enVisionMATH® Common Core follow a four-part lesson structure:

- Daily Common Core Review
- Develop the Concept: Interactive
- Develop the Concept: Visual
- Close/Assess and Differentiate

Follow this process to help your students develop conceptual understanding, skill fluency, and proficiency in reasoning and problem solving. The four-part instructional design is the same across all grade levels.

## 1: Daily Common Core Review

Part 1 of the lesson is the Daily Common Core Review.



Help your students build fluency by providing this daily practice with concepts and skills that they have learned. Notice how the Topic Teacher's Edition makes it clear which concepts the review covers.

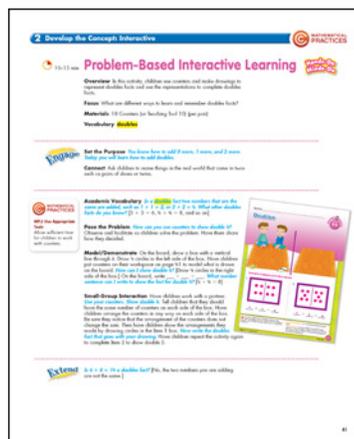
Find this review worksheet in the format that works best for you:

- In the Common Core Domain Teacher's Resource Masters booklet
- Online through Savvas Realize™
- On the Digital Teacher's Edition DVD

Choose to have your students complete this review separately from the math lesson as a bell-ringer activity. Or, use it to transition from prior knowledge into the new lesson.

## 2: Develop the Concept: Interactive

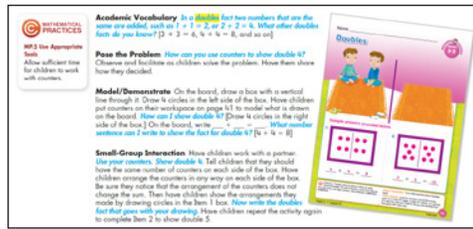
Part 2 of the lesson is Problem-Based Interactive Learning (PBIL).



Actively engage your students in exploring the key concepts of the lesson with the PBIL. In this activity, students work to discover strategies and develop representations for mathematical concepts.

Use the support in the Topic Teacher’s Edition to implement the PBIL. Begin by setting the purpose of the activity and connecting it to students’ prior knowledge.

Next, pose the problem. Have students work individually or in small groups. Provide manipulatives and tools when appropriate to help them solve the problems.



Notice prompts and questions in blue type. Use these suggestions to help your students think critically about concepts.

## Discussion

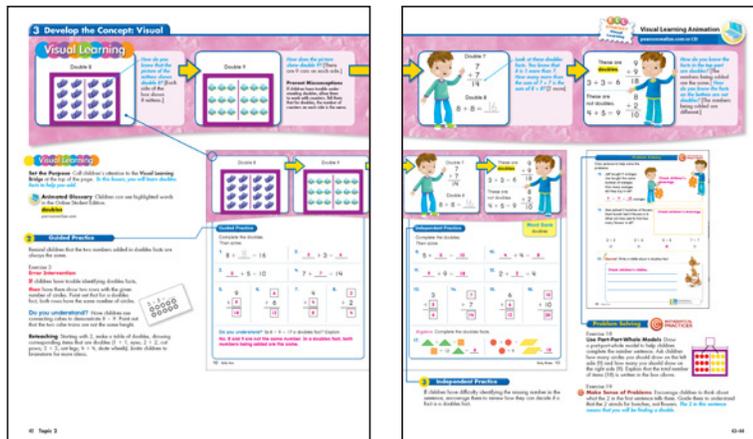
As students work together, observe their ideas and methods. Encourage them to use a variety of different approaches as they develop a solution plan. Find information about how to promote the mathematical practices located at point of use in the Topic Teacher’s Edition.

Conclude the PBIL by asking students to share their strategies with the entire class. Facilitate a discussion about connections between their methods. In this discussion, clarify the mathematical concepts that students will use throughout the rest of the lesson.

Help students deepen their understanding by using the Extend questions found at the end of the PBIL.

## 3: Develop the Concept: Visual

Continue to help students build conceptual understanding through visual learning strategies in the third part of the lesson.



Quickly identify key vocabulary words highlighted in yellow. Continue to reinforce definitions with your class.

Connect the PBIL activity to the lesson exercises with the Visual Learning Bridge. It helps students focus on the key concept of a lesson and gives them a clear, step-by-step process to refer to.

Use the associated Visual Learning Animation to let students hear, see, and learn math concepts. Find these dynamic animations online or on the DVD.

The animated videos automatically pause at key points. Allow students to practice strategies before moving on.

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## Formative Assessment

After the visual learning activity, check for understanding with the Guided Practice problems. Assess students' procedural fluency with the first exercises. Target students' development of the mathematical practices with the Do you understand? section.

Guided Practice			
Complete the doubles. Then solve.			
1. $8 + \underline{8} = 16$	2. $\underline{\quad} + 3 = \underline{\quad}$		
3. $\underline{\quad} + 5 = 10$	4. $7 + \underline{\quad} = 14$		
5. $\begin{array}{r} 9 \\ + \square \\ \hline \square \end{array}$	6. $\begin{array}{r} \square \\ + 6 \\ \hline \square \end{array}$	7. $\begin{array}{r} 4 \\ + \square \\ \hline \square \end{array}$	8. $\begin{array}{r} \square \\ + 2 \\ \hline \square \end{array}$
Do you understand? Is $8 + 9 = 17$ a doubles fact? Explain.			

Take advantage of the formative assessment opportunities that the Guided Practice section provides. Find error intervention tips to help students get back on track. Options for reteaching provide additional practice for students who need it.

As students continue to the Independent Practice phase, use suggested questions and prompts from the Topic Teacher's Editions.

With this support, you can

- probe deeper;
- assess understanding;
- promote mathematical practices; and
- identify and dispel misunderstandings.

Problem Solving exercises give students the chance to apply the strategies that they have refined throughout the lesson. These problems require use of the mathematical practices and higher-order thinking.

## 4: Close/ Assess and Differentiate

Close the lesson by reviewing the Essential Understanding.

The image shows two pages from a teacher's resource. The left page is titled '4 Close/Assess and Differentiate' and features a 'Quick Check' section with a table of numbers and a 'Student Sample' section with handwritten student work. The right page is titled 'Differentiated Instruction' and shows three columns of activities: 'Intervention', 'Enrichment', and 'Levelled Homework', each with a 'Quick Check' and a 'Student Sample'.

Use the Quick Check to assess students' understanding of lesson content. Notice that each Quick Check includes an open-ended question that requires a written response. Find a scoring rubric in your Topic Teacher's Edition that includes three levels of performance and samples of student work.

ELL Strategies help English language learners complete their written responses.

## Further Practice

Use students' scores to prescribe Differentiated Instruction. Have on-level and advanced students complete self-directed Center Activities in partners or small groups.

Each lesson has two leveled versions of the same activity. Have students work together to practice skills and reinforce concepts. Center Activities follow one of seven formats. The predictability allows students to work independently.

Meanwhile, work through the Intervention Activity with students who need remediation.

The Leveled Homework provides additional practice opportunities based on each student's level of understanding.

Like the Daily Common Core Review, the Leveled Homework is available in several formats:

- Within the Common Core Domain Teacher's Resource. Masters booklet
- On Savvas Realize™
- On the DVD

## Review

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