

Teaching a Lesson

Introduction

This guide discusses teaching an enVisionMATH lesson and covers each part of the four-part lesson plan.

In this guide, both primary and intermediate grade-level examples are shown, which can be applied to any grade level.

The 4-Part Lesson Plan

After teachers introduce a new math topic, they are ready to plan and teach a four-part lesson. Although lesson activities vary, the four-part instructional design is the same for all grade levels.

Lesson Planning

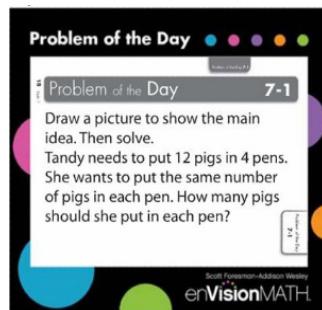
Open the Topic Teacher's Edition to any lesson. On the left-hand side of the page, there is a segment from the Math Background for Teachers. To the right of the lesson number, there is a Quick and Easy Lesson Overview.

Quick and Easy Lesson Overview			
Objective	Essential Understanding	Vocabulary	Materials
Students will use models to solve division problems involving sharing and recording solutions using division number sentences.	Some real-world problems involve joining or separating equal groups or comparison. Sharing is one way to think about division.	division (p. 164)	Two-color counters (or Teaching Tool 28) (20 per pair), Interactive Learning Recording Sheet 13

This overview includes the lesson's Objective, Essential Understanding, Vocabulary, and Materials.

Part 1 - Daily Spiral Review

The first part of the lesson begins with the Daily Spiral Review and Problem of the Day.



The blackline masters of these are in the topic pouch and online. The Daily Spiral Review and Problem of the Day review foundational math skills. There is a list of skills that are reviewed to the right of each activity. Students can complete these activities independently or with a partner. To provide more time for parts two and three of the lesson, teachers may want students to complete just one of the two activities on alternate days.

Part 2 - Develop the Concept: Interactive

Part two of the lesson begins to develop the new math concept with a problem-based interactive learning activity.

There are suggestions to engage students by setting the purpose and helping them make connections to prior knowledge. Pose the problem to the class and have students work in pairs. Encourage them to talk, draw, and use manipulatives to solve the problem.

The first lesson page for primary grades is a recording sheet for the interactive learning activity. For intermediate grades, there may be an Interactive Learning Recording Sheet in the Topic Pouch, but often they just draw their own diagram to solve the problem.

Use the questions in blue type in the Topic Teacher's Edition to help students think critically about the math.

Academic Vocabulary When you share things equally, you separate or divide them into equal groups. Division is an operation that you can use to find how many groups and how many are in each group. How many groups of apples will you need to make? [4] Why? [There are four friends.]

Students develop a deeper understanding of the concept as they answer the questions and solve the problem.

Consider using the Extend questions to challenge advanced students.

Part 3 - Develop the Concept: Visual

Following the interactive learning activity, continue developing the concept in the third part of the lesson. Use visual learning strategies during instruction.

The Visual Learning Bridge displayed across the top of the page visually illustrates the math process or concept one step at a time.

The background color of the Visual Learning Bridge corresponds to the math strand associated with the lesson.

Key



All key vocabulary words are highlighted in yellow so teachers can quickly identify them and discuss them with their class.

Find suggested guiding questions in blue type. In this third grade example, students learn to think of division as sharing. Teachers ask students to think about and explain why they need three equal groups. When students think critically and answer questions, they deepen their understanding of the math concept.

In addition to the Visual Learning Bridge, use the Visual Learning Animations to deepen and reinforce students' understanding. These interactive animations make the math come alive. Each animation states the lesson's purpose and displays key vocabulary terms. With just a click, access the Animated Glossary for vocabulary support in two languages with audio.

While teaching with the Visual Learning Animations, control the lesson by stepping through each frame one at a time. Determine when it is time to move ahead. Use the Guided Practice problems to check for understanding.

In the primary grades, the Do you understand? question checks for understanding. Error intervention tips help students get back on track and a reteaching suggestion to use if students need additional practice.

In the intermediate grades, the Student Edition has both Do you know HOW? and Do you UNDERSTAND? questions to help teachers check for understanding. Find error intervention tips and reteaching suggestions in the Topic Teacher's Edition. Now students are prepared to complete Independent Practice problems.

**Part 4 -
Close/Assess
and
Differentiate**

After students have completed practice problems, close the lesson, assess understanding, and assign differentiated practice.

First, close the lesson by discussing the Essential Understanding. Next, use the Quick Check formative assessment located in the Topic Pouch. Each Quick Check includes an open-ended question that requires a written response. There is a rubric in the Topic Teacher's Edition for quick grading of these questions. Additionally, ELL teaching strategies help English learners complete their written response.

Based on students' scores, prescribe Differentiated Instruction. Use the Intervention activity with students who need extra help while the other students complete a center-based activity with a partner.

Finally, use the Leveled Homework to provide students an additional practice opportunity based on their level of understanding. All three masters are available in the Topic Pouch and online.

Review

This guide discussed teaching enVisionMATH lessons and covered each part of the four-part lesson.

For more information, please watch the other enVisionMATH tutorials on this Web site.