

Grades K-5

# INSTRUCTIONAL DESIGN

## STEP 1 PROBLEM-BASED LEARNING



## STEP 2 VISUAL LEARNING



## STEP 3 ASSESS & DIFFERENTIATE

Solve & Share problem-based learning opens each lesson with a rich problem for students to discuss and share solution strategies. Problem-based learning is an educational approach in which complex problems serve as the context and the stimulus for learning.

Visual learning bridge connects student thinking from the Solve & Share to the Lesson.

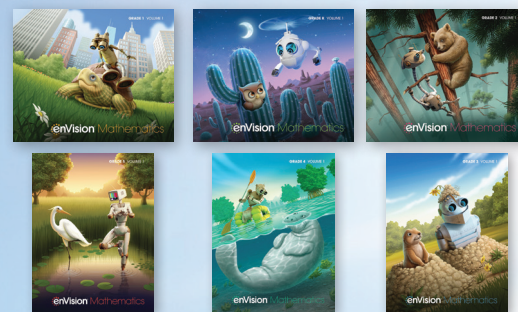
*“The coupling of using a problem to introduce a concept and then using the students’ thinking and work solving that problem as a bridge to making the important math explicit is one of, if not the strongest research findings in math education that’s ever been found.”*

Randy Charles, Lead Author

A variety of engaging differentiation options in each lesson encourage and challenge students of all learning levels.







## WHAT TEACHERS DO

## WHAT STUDENTS DO

### STEP 1 Solve & Share (10-15 minutes)



### STEP 2 Visual Learning (20-30 minutes)



### Guided Practice



### Independent Practice Problem-Solving



### STEP 3 Assess and Differentiate (15-30 minutes)

Facilitate whole-class discussion; support productive struggle; observe students at work; ask guiding questions; display and discuss student thinking and strategies.

Work with partner or small group; engage in problem where new ideas are embedded; solve the problem any way they choose; share and compare solution strategies.

Use blue Guiding Questions to continue discussion and make important math ideas explicit. Project Visual Learning Animation Plus for whole-class discussion.

Follow Visual Learning Bridge in Student's Edition to reinforce the Animation. Demonstrate understanding during Convince Me!

Use Error Intervention as Formative Assessment tool to check for understanding and provide Reteaching Set prior to Independent Practice.

Students work individually, in small groups, or in pairs to demonstrate understanding of concept and application.

Assign selected exercises in print Student's Edition, online Realize Reader, or Practice Buddy. Use Quick Check to prescribe differentiated resources.

Work independently to build proficiency. Differentiation may be completed independently or in small groups. Students use the Lesson Self Assessment to reflect on their understanding of the language and math goals.

Quick Check scores are used to prescribe intervention, on-level, or advanced resources. Assign Additional Practice Workbook, online Interactive Additional Practice Workbook, Practice Buddy, or Adaptive Practice (Grades 3-5).

Work independently, with a partner, or in small group. Help is available from Another Look Video that can be accessed through mobile device.

