

Grades K-5

INSTRUCTIONAL DESIGN

STEP 1 PROBLEM-BASED LEARNING



STEP 2 VISUAL LEARNING



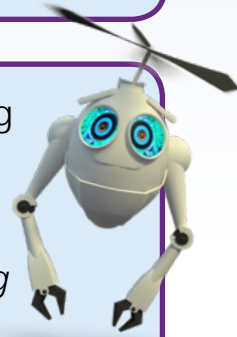
STEP 3 ASSESS & DIFFERENTIATE

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.

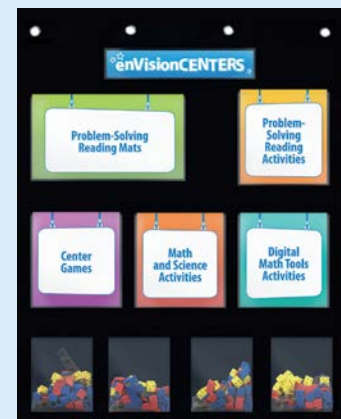
Visual learning bridge connects student thinking from the Solve & Share to the Lesson.





“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. The Quick-and-Easy Centers Kit organizes all resources for the Differentiated Center Activities.



	WHAT TEACHERS DO	WHAT STUDENTS DO	OPTIONAL RESOURCES
STEP 1 Solve & Share (10-15 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.	<ul style="list-style-type: none"> Project Student Work Samples Use before Solve & Share: <ul style="list-style-type: none"> Today's Challenge Daily Common Core Review Animated Math Story (Grades K-2)
STEP 2 (20-30 minutes) Visual Learning 	Use blue Guiding Questions in Teacher's Edition to continue discussion and make important math ideas explicit. Project Visual Learning Animation Plus video for whole-class discussion.	Follow Visual Learning Bridge in Student's Edition to reinforce the Animation. Demonstrate understanding during Show Me! for Grades K-2 and Convince Me! for Grades 3-5.	<ul style="list-style-type: none"> RTI Level 1 Reteaching in Teacher's Edition
Guided Practice 	Use Error Intervention, noted in the Teacher's Edition, as a Formative Assessment tool to check for understanding and provide Reteaching Set prior to Independent Practice.	Work individually, in small groups, or in pairs to demonstrate understanding of concept and application.	<ul style="list-style-type: none"> RTI Level 1 Reteaching in Teacher's Edition
Independent Practice Problem-Solving 	Assign selected exercises in print Student's Edition or online Practice Buddy. Complete Quick Check of the 3 problems checked in the Teacher's Edition to prescribe differentiated resources.	Work independently to build proficiency. Differentiation may be completed independently or in small groups.	<ul style="list-style-type: none"> Completing all Independent Practice problems; start with the questions marked with a pink checkmark when short on time Practice Buddy Online Independent Practice & Problem Solving (Grades 3-5)
STEP 3 Assess and Differentiate (15-30 minutes)	Quick Check scores are used to prescribe intervention, on-level, or advanced resources. Work with the Intervention group on the Intervention Activity and Reteach to Build Understanding. Assign Homework and Practice in the Student Edition, Practice Buddy, or Adaptive Practice (Grades 3-5).	On-level and Advanced students work independently, with a partner, or in small groups on a variety of engaging and cross-curricular Center Activities organized in the Quick-and-Easy Centers Kit.	<ul style="list-style-type: none"> Online Quick Check Online Game Center Online Practice Buddy Homework & Practice (Grades 3-5) Online Knewton Adaptive Homework & Practice (Grades 3-5) Another Look Video

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