

LOOK FOR SYMBOLS OR PATTERNS TO BREAK DOWN THE PROBLEM		
UNDERSTAND	Definition	Students recognize and understand how to use symbols and patterns within a problem to help them find an entry point and/or a solution.
	When to Teach This Strategy	When working on complex or multistep math problems
		 struggle to identify the important parts of a given math problem or
PREPARE	Why We Teach It	 have difficulty with organizing a pathway to find a solution to a given problem Mathematically proficient students understand that math problems generally have multiple entry
		points; that is, there is more than one way to arrive at the solution. Looking for symbols and patterns helps students make sense of the problem and find an entry point to the solution.
	Secrets to	For students to be successful with this strategy they must
	Success	 recognize patterns within math problems, understand important math vocabulary terms and their definitions, and be able to break the problem down into parts.
TEACH	How We Teach It	Model a think-aloud during the "I Do" focus lesson:
		Explain to students that they are going to learn a math strategy that will help them find the important information within a problem and that the information will help them find a solution. Explain that when you look for symbols and patterns in a problem, you can identify the important parts, which will help you find a solution.
		First, read the problem aloud. Then, reread the problem aloud to look for the important information that will help us make our pathway to finding a solution. As we find this important information, we talk aloud and write student-friendly definitions next to the important points that stand out to us and note any patterns we find by either highlighting them or making a note in the margin.
		After modeling this strategy three or four times with several different types of math problems, we provide student practice during the "We Do" focus lesson by using several more math problems. Students practice reading several different problems, rereading each one to pull out the symbols or patterns that will support them in finding a pathway to a solution.
		Suggested Language
		 What symbols or patterns in this problem are familiar to you? When you see familiar symbols or patterns, think about what they mean and how they will
		help you solve this problem.
	Instructional	 Use this familiarity to help you make sense of the problem. Teach students to write their own student-friendly definition next to math symbols or math
SUPPORT	Pivots	vocabulary they encounter within a problem. For example, if they come across the +
		symbol, they can write "add," or if they see math language such as <i>three times as many</i> ,
		 Identify patterns that are found within the problem by either highlighting them or making a
		note in the margin as a reminder.
	Partner	These strategies may provide support before, during, and after teaching this strategy:
	Strategies	 Look for Entry Points to a Solution
		Write an Equation
		Make a Connection
		Use Manipulatives