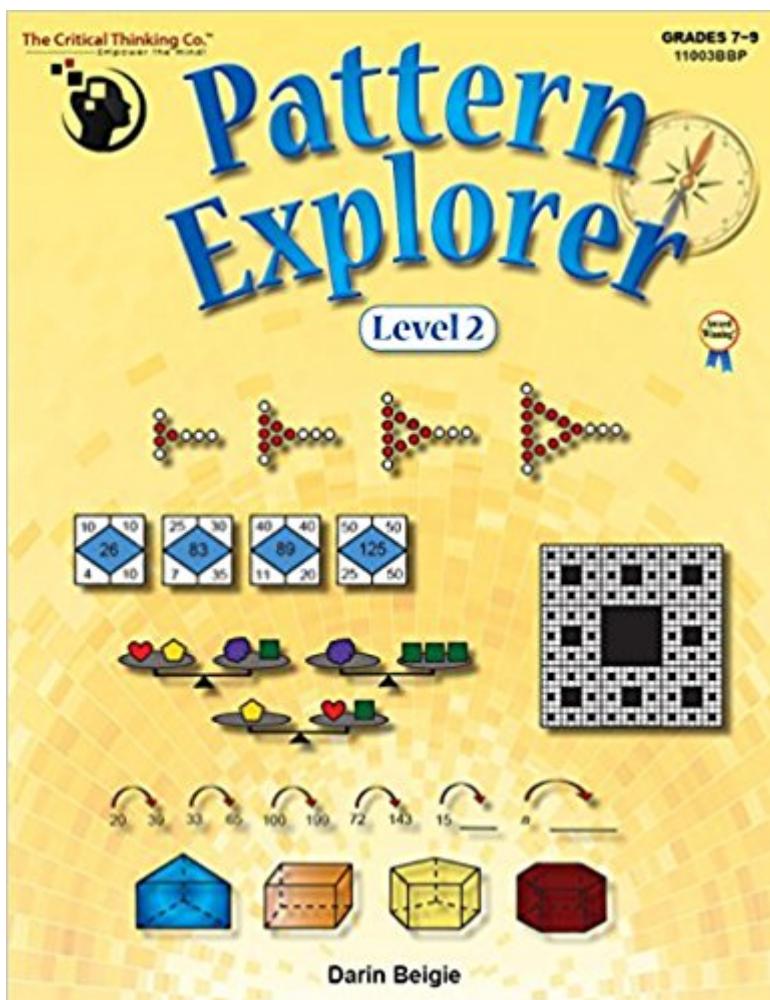


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# Pattern Explorer Level 2 (Grades 7-9)

## - Pattern Problems To Develop Mathematical Reasoning



## **Synopsis**

Mathematics and science can be thought of as a search for patterns and structure. Discovery and insight comes when patterns are recognized and structure is understood. Pattern Explorer provides rich and diverse collections of pattern problems for students to explore, investigate, discover, and create. Forty activity sets are divided into five themes that appear in rotating order: Pattern Predictor, Equality Explorer, Sequence Sleuth, Number Ninja, and Function Finder. The activities are independent and self-contained, but tend to build on one another and get gradually more sophisticated as the collection progresses. Each activity is accompanied by hints, and detailed solutions are included. Students are encouraged to explore the patterns with a sense of adventure and perseverance. The result will be rich and authentic experiences in mathematical reasoning.

## **Book Information**

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and perseverance. The result will be rich and authentic experiences in mathematical reasoning.

As a highly qualified teacher, I find that students lack logic and reasoning skills. My homeschooled students are currently using the Pattern Explorer Level 1 as part of their practice for logic and reasoning skills. The variety of skills learned and maintained by my sixth grade students made them want to add more logic and reasoning skills for their seventh grade year. These skills greatly aid with Algebra skills and reading comprehension skills. Besides Perplexors, Pattern Explorer is their most favorite of these types of supplementary books.

Definitely has enough rigor to engage my high school students.

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