The Data Dilemma®

While using The Data Dilemma® your students will experience the dilemma scientists face when new data indicates the mental model of the object they are researching needs to be modified. As each new data set is introduced and your students form a series of new models — using foam tangram pieces — your students will learn that the practice of science is an ongoing process, not a set of facts published in a textbook or online.

How many possible models can your students find?

12-Puzzle Set $24.00 (DD-12)

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Connections to: A Framework for K-12 Science Education

Practices, Crosscutting Concepts, and Core Ideas*

Dimension 1: Scientific and Engineering Practices
1. Asking questions (for science) and defining problems (for engineering)
2. Developing and using models
4. Analyzing and interpreting data
5. Using mathematics and computational thinking
8. Obtaining, evaluating, and communicating information

2. Crosscutting Concepts
1. Patterns

3. Disciplinary Core Ideas
Engineering, Technology and Applications of Science
ETS1: Engineering Design
ETS1.A: Defining and Delimiting an Engineering Problem
ETS1.B: Developing Possible Solutions
ETS1.C: Optimizing the Design Solution