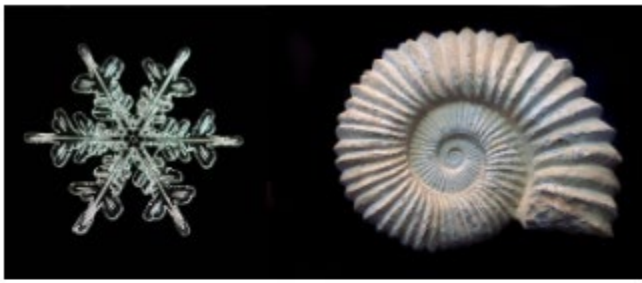


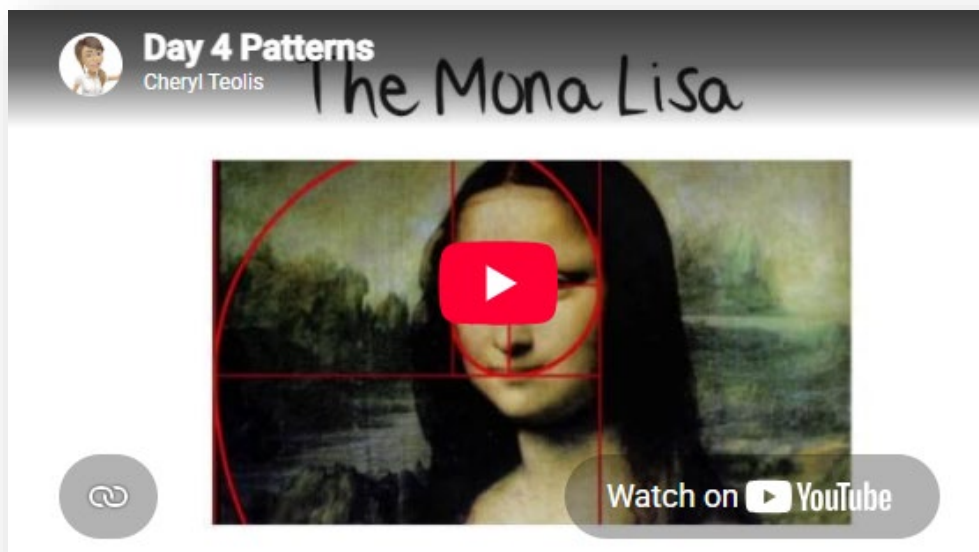
The Natural Beauty of Mathematics



Mathematics is much more than numbers and formulas. It is a way of recognizing patterns, relationships, and structures that help us understand the world. From the symmetry of snowflakes and leaves to the spirals found in sunflowers, shells, and pinecones, mathematics reveals an underlying order and beauty throughout nature.

Math also inspires creativity in art, music, and design. Artists use geometric shapes, proportions, and patterns to create balance and harmony, while architects and engineers rely on mathematical principles to design buildings, bridges, and other structures that are both functional and beautiful. Many of the designs we admire are rooted in mathematical ideas.

When we view mathematics as a way of exploring and making sense of the world, it becomes more than a school subject. It becomes a lens for discovery, encouraging curiosity, creativity, and wonder. By noticing patterns, connections, and structure in everyday life, learners can develop a deeper appreciation for the beauty and power of mathematics.



For additional information and resources to support at home, please visit the [Office of Mathematics website](#).

Big Ideas in Unit 6

Within this unit, students will learn these big ideas:

- Does This Predict That?
- Associations in Numerical Data
- Associations in Categorical Data
- Probabilities of Multi-Step Events

For more details about this unit, see [Unit 6 Family Resources Part 1](#), and [Unit 6 Family Resources Part 2](#).

Note: Print and digital resources for Math 8 Unit 6 are from Illustrative Mathematics Grade 8 Unit 6 and Illustrative Mathematics Grade 7 Unit 8 in alignment with revised Maryland Math standards.

Lesson Specific Resources

Use the links below to learn about the learning from each lesson.

Lesson Link
8.6.1 Organizing Data
8.6.2 Plotting Data
8.6.3 What a Point in a Scatter Plot Means
8.6.4 Fitting a Line to Data
8.6.5 Describing Trends in Scatter Plots
8.6.6 The Slope of a Fitted Line
8.6.7 Observing More Patterns in Scatter Plots
8.6.8 Analyzing Bivariate Data
8.6.9 Looking for Associations
8.6.10 Using Data Displays to Find Associations
8.6.11 Gone in 30 Seconds
7.8.7 Simulating Multi-Step Experiments
7.8.8 Keeping Track of All Possible Outcomes
7.8.9 Multi-Step Experiments
7.8.10 Designing Simulations