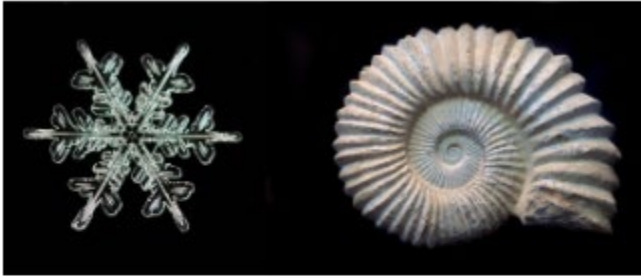


The Natural Beauty of Mathematics

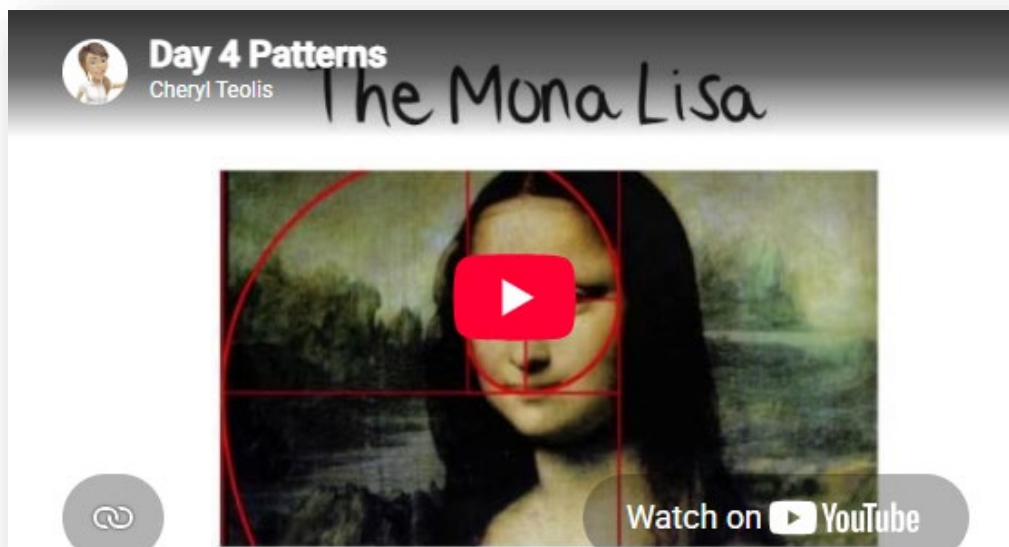


Mathematics is much more than numbers and formulas. It is a way of recognizing patterns, relationships, and structures that help us understand the world. From the symmetry of snowflakes and leaves to the spirals found in sunflowers, shells, and pinecones, mathematics reveals an underlying order and beauty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

- Representing and Interpreting Functions
- Prisms and Cylinders
- Cones and Spheres

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

Lesson Specific Resources

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

Lesson Link
6.1 Inputs and Outputs
6.2 Introduction to Functions
6.3 Equations for Functions
6.4 Graphs of Functions
6.5 Even More Graphs of Functions
6.6 Connecting Representations of Functions
6.7 Linear Functions and Models
6.8 Slicing Solids
6.9 Volume of Right Prisms
6.10 Decomposing Bases for Area
6.11 The Volume of a Cylinder
6.12 Finding Cylinder Dimensions
6.13 Surface Area of Right Prisms
6.14 Applying Volume and Surface Area
6.15 The Volume of a Cone
6.16 Finding Cone Dimensions
6.17 Scaling One Dimension
6.19 Estimating a Hemisphere
6.20 The Volume of a Sphere
6.21 Cylinders, Cones, and Spheres
6.22 Building Prisms
6.23 Volume as a Function of