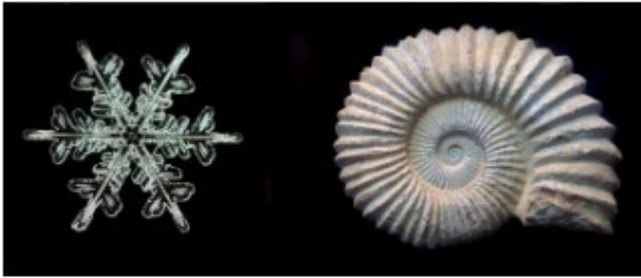


Unit 6: Expressions and Equations

Family Resources for Math 6 Unit 6: Expressions and Equations

The Natural Beauty of Mathematics



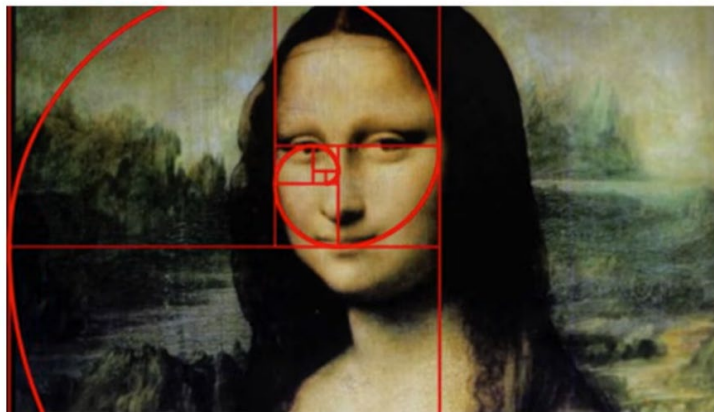
Mathematics is much more than numbers and formulas. It is a way of recognizing patterns, relationships, and structures that help us understand the world. From the symmetry of snowflakes and leaves to the spirals found in sunflowers, shells, and pinecones, mathematics reveals an underlying order and beauty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

The Mona Lisa



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:

- Equations in One Variable
- Equal and Equivalent
- Expressions with Exponents
- Relationships Between Quantities

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
<u>6.1 Tape Diagrams and Equations</u>
<u>6.2 Truth and Equations</u>
<u>6.3 Staying in Balance</u>
<u>6.4 Practice Solving Equations</u>
<u>6.5 Represent Situations with Equations</u>
<u>6.6 Percentages and Equations</u>
<u>6.7 Write Expressions with Variables</u>
<u>6.8 Equal and Equivalent</u>
<u>6.9 The Distributive Property, Part 1</u>
<u>6.10 The Distributive Property, Part 2</u>
<u>6.11 The Distributive Property, Part 3</u>
<u>6.12 Meaning of Exponents</u>
<u>6.13 Expressions with Exponents</u>
<u>6.14 Evaluating Expressions with Exponents</u>
<u>6.15 Equivalent Exponential Expressions</u>
<u>6.16 Two Related Quantities, Part 1</u>
<u>6.17 Two Related Quantities, Part 2</u>
<u>6.18 More Relationships</u>
<u>6.19 Tables, Equations, and Graphs, Oh My!</u>