

# 7

## The Mathematics of Patterns & Nature

### 7.1 Linear Patterns

- ▶ Recognize and describe a linear pattern.
- ▶ Use a linear pattern to predict a future event.
- ▶ Recognize a proportional pattern.

### 7.2 Exponential Patterns

- ▶ Recognize and describe an exponential pattern.
- ▶ Use an exponential pattern to predict a future event.
- ▶ Compare exponential and logistic growth.

### 7.3 Quadratic Patterns

- ▶ Recognize and describe a quadratic pattern.
- ▶ Use a quadratic pattern to predict a future event.
- ▶ Compare linear, quadratic, and exponential growth.

### 7.4 Fibonacci & Other Patterns

- ▶ Recognize and describe the Fibonacci pattern.
- ▶ Analyze geometric Fibonacci patterns.
- ▶ Recognize and describe other patterns in mathematics.