

# Kindergarten Science Year at a Glance

## **Quarter 1**

Unit of Study 1.1: Weather, 7 days

Unit of Study 1.2: Human Characteristics, 15 days

## **Quarter 2**

Unit of Study 2.1: Properties of Objects, 12 days

Unit of Study 2.2: Rocks and Soil, 12 days

## **Quarter 3**

Unit of Study 3.1: Force and Motion, 5 days

Unit of Study 3.2: Objects in the Sky, 3 days

Unit of Study 3.3: Energy, 8 days

## **Quarter 4**

Unit of Study 4.1: Living and Nonliving, 2 days

Unit of Study 4.2: Characteristics of Plants, 8 days

Unit of Study 4.3: Characteristics of Animals, 11 days

## Grade 1 Science

# Year at a Glance

### **Quarter 1**

Unit of Study 1.1: Weather, 6 days

Unit of Study 1.2: Objects in the Sky, 8 days

Unit of Study 1.3: Human Characteristics, 8 days

### **Quarter 2**

Unit of Study 2.1: Rocks, Soil, and Water, 10 days

Unit of Study 2.2: Pushes and Pulls, 6 days

Unit of Study 2.3: Heat Energy, 3 days

### **Quarter 3**

Unit of Study 3.1: Properties of Solids and Liquids, 11 days

Unit of Study 3.2: Characteristics of Animals, 14 days

### **Quarter 4**

Unit of Study 4.1: Characteristics of Plants, 16 days

## Grade 2 Science

# Year at a Glance

### **Quarter 1**

Unit of Study 1.1: Human Characteristics, 6 days

Unit of Study 1.2: Objects in the Sky, 6 days

Unit of Study 1.3: Weather, 10 days

### **Quarter 2**

Unit of Study 2.1: Forms of Energy, 6 days

Unit of Study 2.2: Properties of Solids and Liquids, 6 days

Unit of Study 2.3: Changes to Solids and Liquids, 10 days

### **Quarter 3**

Unit of Study 3.1: Force and Motion, 8 days

Unit of Study 3.2: Characteristics of Animals, 10 days

### **Quarter 4**

Unit of Study 4.1: Earth Materials and Processes of Change, 10 days

Unit of Study 4.2: Characteristics of Plants, 10 days

## Grade 3 Science

# Year at a Glance

### **Quarter 1**

Unit of Study 1.1: Weather and the Water Cycle, 8 days

Unit of Study 1.2: Objects in the Sky, 6 days

Unit of Study 1.3: Earth Materials, 7 days

### **Quarter 2**

Unit of Study 2.1: Changes to the Earth's Surface, 9 days

Unit of Study 2.2: Matter, 7 days

Unit of Study 2.3: Forms of Energy, 9 days

### **Quarter 3**

Unit of Study 3.1: Force and Motion, 7 days

Unit of Study 3.2: Human Characteristics, 7 days

Unit of Study 3.3: Characteristics of Animals, 10 days

### **Quarter 4**

Unit of Study 4.1: Characteristics of Plants, 10 days

Unit of Study 4.2: Ecosystems and Change Over Time, 10 days

## Grade 4 Science

# Year at a Glance

### **Quarter 1**

Unit of Study 1.1: Weather and the Water Cycle, 10 days

Unit of Study 1.2: Earth Materials, 8 days

Unit of Study 1.3: Changes to the Earth's Surface, 8 days

### **Quarter 2**

Unit of Study 2.1: Matter, 10 days

Unit of Study 2.2: Forms of Energy, 10 days

### **Quarter 3**

Unit of Study 3.1: Force and Motion, 10 days

Unit of Study 3.2: The Solar System, 5 days

Unit of Study 3.3: Characteristics of Plants, 6 days

### **Quarter 4**

Unit of Study 4.1: Characteristics of Animals, 11 days

Unit of Study 4.2: Ecosystems and Change Over Time, 7 days

## Grade 5 Science Year at a Glance

### **Quarter 1**

Unit of Study 1.1: Properties of Matter, 12 days

Unit of Study 1.2: Energy, 20 days

### **Quarter 2**

Unit of Study 2.1: Forces and Motion, 18 days

Unit of Study 2.2: Space Science, 18 days

### **Quarter 3**

Unit of Study 3.1: Processes that Shape the Earth—Geology, 15 days

Unit of Study 3.2: Processes that Shape the Earth—Weather, 15 days

Unit of Study 3.3: Characteristics of Living Organisms, 10 days

### **Quarter 4**

Unit of Study 4.1: Processes within an Ecosystem, 12 days

Unit of Study 4.2: Biodiversity and Evolution, 12 days

Unit of Study 4.3: Heredity and Human Development, 12 days

## Grade 6 Science

# Year at a Glance

### **Quarter 1**

Unit of Study 1.1: Processes within an Ecosystem, 15 days

Unit of Study 1.2: Processes within an Ecosystem – part 2, 7 days

Unit of Study 1.3: Characteristics of Living Organisms, 10 days

### **Quarter 2**

Unit of Study 2.1: Biodiversity and Evolution, 15 days

Unit of Study 2.2: Human Development, 10 days

### **Quarter 3**

Unit of Study 3.1: Processes that Shape the Earth—Weather, 20 days

Unit of Study 3.2: Processes that Shape the Earth—Geology, 15 days

### **Quarter 4**

Unit of Study 4.1: Space Science, 20 days

Unit of Study 4.2: Forces and Motion, 5 days

Unit of Study 4.3: Properties of Matter, 5 days

## Grade 7 Science

# Year at a Glance

### **Quarter 1**

Unit of Study 1.1: Processes within an Ecosystem, 23 days

Unit of Study 1.2: Energy, 7 days

### **Quarter 2**

Unit of Study 2.1: Properties of Matter, 15 days

Unit of Study 2.2: Forces and Motion, 25 days

### **Quarter 3**

Unit of Study 3.1: Space Science, 20 days

Unit of Study 3.2: Processes that Shape the Earth, 20 days

### **Quarter 4**

Unit of Study 4.1: Heredity and Human Development, 15 days

Unit of Study 4.2: Biodiversity and Evolution, 8 days

Unit of Study 4.3: Characteristics of Living Organisms, 17 days



## Grade 8 Science

# Year at a Glance

### **Quarter 1**

Unit of Study 1.1: Characteristics of Living Organisms and Human Development, 21 days

Unit of Study 1.2: Processes within an Ecosystem, 5 days

### **Quarter 2**

Unit of Study 2.1: Properties of Matter, 45 days

### **Quarter 3**

Unit of Study 3.1: Force and Motion, 25 days

Unit of Study 3.2: Energy, 20 days

### **Quarter 4**

Unit of Study 4.1: Processes that Shape the Earth, 20 days

Unit of Study 4.2: Space Science, 20 days

## Biology

# Year at a Glance

### Quarter 1

Unit of Study 1.1: Introduction to Biology, 5 days

Unit of Study 1.2: Cells and Cell Organelles, 10 days

Unit of Study 1.3: Disease/Homeostasis, 10 days

Unit of Study 1.4: Biochemistry, 11 days

### Quarter 2

Unit of Study 2.1: Matter and Energy in Ecosystems, 10 days

Unit of Study 2.2: Matter and Energy Flow—Coupled Reactions, 10 days

Unit of Study 2.3: Ecosystem Balance and Change, 16 days

### Quarter 3

Unit of Study 3.1: Reproduction and Genetics—DNA Replication, 12 days

Unit of Study 3.2: Transcription/Translation, 8 days

Unit of Study 3.3: Biotechnology, 10 days

### Quarter 4

Unit of Study 4.1: Natural Selection—Genetics of Families and Populations, 12 days

Unit of Study 4.2: Evidence of Evolution, 14 days

Unit of Study 4.3: Review Options—Teacher Choice

# Chemistry

## Year at a Glance

### Quarter 1

Unit of Study 1.1: Kinetic Molecular Theory/Physical and Chemical Changes, 10 days

Unit of Study 1.2: Atoms and Molecules, 10 days

Unit of Study 1.3: Nuclear Changes, 7 days

Unit of Study 1.4: Nuclear Applications, 10 days

### Quarter 2

Unit of Study 2.1: Big Bang Theory and Star Cycle, 7 days

Unit of Study 2.2: Electron Configuration, 10 days

Unit of Study 2.3: Periodic Trends, 10 days

Unit of Study 2.4: Chemical Bonds, 10 days

### Quarter 3

Unit of Study 3.1: Energy Transformations—Phases of Matter, 5 days

Unit of Study 3.2: Gas Law, 10 days

Unit of Study 3.3: Compounds and Formulas, 10 days

Unit of Study 3.4: Conservation of Energy, 5 days

### Quarter 4

Unit of Study 4.1: Earth Processes, 5 days

Unit of Study 4.2: Chemical Equations, 10 days

Unit of Study 4.3: Energy of Chemical Reactions, 10 days

Unit of Study 4.4: Stoichiometry, 10 days

# Physical Science Year at a Glance

## Quarter 1

Unit of Study 1.1: Laws of Motion, Velocity, Displacement, and Acceleration, 13 days

Unit of Study 1.2: Forces, 8 days

Unit of Study 1.3: Graphical Analysis of Projectile and Freefall Motion, 5 days

Unit of Study 1.4: Momentum and its Conservation, 8 days

## Quarter 2

Unit of Study 2.1: Gravity, 7 days

Unit of Study 2.2: Types of Energy, 5 days

Unit of Study 2.3: Energy Transformation and Conservation, 12 days

Unit of Study 2.4: Energy in Earth Processes, 10 days

## Quarter 3

Unit of Study 3.1: Waves, 10 days

Unit of Study 3.2: Wave Properties, 10 days

Unit of Study 3.3: Formation of Stars, 10 days

Unit of Study 3.4: Structure of the Universe, 8 days

## Quarter 4

Unit of Study 4.1: Atomic Models and Properties, 4 days

Unit of Study 4.2: Static Charges, 10 days

Unit of Study 4.3: Moving Charges, 12 days

Unit of Study 4.4: Review for Common Course Assessment, 15 days