

# GRADE 8 VOCABULARY LIST

## UNIT 1

### Holt Science & Technology Short Course P: Introduction to Science

#### Chapter 1: The World of Life Science

- Life Science
- Hypothesis
- Variable
- Theory
- Technology
- Electron Microscope
- Volume
- Temperature
- Scientific Method
- Controlled Variable
- Model
- Law
- Compound Light Microscope
- Area
- Mass

## UNIT 2

### Holt Science & Technology Short Course C: Cells, Heredity, and Classification

#### Chapter 1: Cells: The Basic Unit of Life

- Cell
- Cell Membrane
- Organelle
- Cell Wall
- Organ
- Organism
- Function
- Nucleus
- Prokaryote
- Eukaryote
- Tissue
- Organ System
- Structure

#### Chapter 3: Heredity

- Heredity
- Recessive Trait
- Allele
- Genotype
- Homologous Chromosomes
- Sex Chromosomes
- Dominant trait
- Gene
- Phenotype
- Probability
- Meiosis
- Pedigree

#### Chapter 5: The Evolution of Living Things

- Adaptation
- Species
- Evolution
- Selective Breeding
- Generation Time
- Fossil
- Fossil Record
- Trait
- Natural Selection
- Speciation

## Chapter 6: The History of Life on Earth

- Fossil
- Absolute Dating
- Extinct
- Precambrian Era
- Mesozoic Era
- Primate
- *Homo Sapiens*
- Relative Dating
- Geological Time Scale
- Plate Tectonics
- Paleozoic Era
- Cenozoic Era
- Hominid

## UNIT 3

### Holt Science & Technology Short Course N: Electricity and Magnetism

#### Chapter 1: Introduction to Electricity

- Law of Electric Charge
- Electric Field
- Electrical Insulator
- Electric Discharge
- Voltage
- Cell
- Photocell
- Series Circuit
- Electric Force
- Electrical Conductor
- Static Electricity
- Electric Current
- Resistance
- Thermocouple
- Electric Power
- Parallel Circuit

#### Chapter 2: Electromagnetism

- Magnet
- Magnetic force
- Solenoid
- Electric Motor
- Electric Generator
- Magnetic Pole
- Electromagnetism
- Electromagnet
- Electromagnetic Induction
- Transformer

## UNIT 4

### Holt Science & Technology Short Course O: Sound and Light

#### Chapter 1: The Energy of Waves

- Wave
- Medium
- Amplitude
- Wavelength
- Reflection
- Diffraction
- Standing Wave
- Transverse Wave
- Longitudinal Wave
- Frequency
- Wave Speed
- Refraction
- Interference
- Resonance

## **Chapter 2: The Nature of Sound**

- Sound Wave
- Pitch
- Loudness
- Echo
- Echolocation
- Interference
- Sound Quality
- Medium
- Doppler Effect
- Decibel
- Sonic Boom
- Standing Wave
- Resonance
- Noise

## **Chapter 3: The Nature of Light**

- Electromagnetic Wave
- Electromagnetic Spectrum
- Refraction
- Diffraction
- Interference
- Transparent
- Opaque
- Radiation
- Reflection
- Absorption
- Scattering
- Transmission
- Translucent
- Pigment

## **UNIT 5**

### **Holt Science & Technology Short Course J: Astronomy**

#### **Chapter 1: Studying Space**

- Astronomy
- Year
- Telescope
- Reflecting Telescope
- Constellation
- Zenith
- Altitude
- Month
- Day
- Refracting Telescope
- Electromagnetic Spectrum
- Horizon
- Light-year

#### **Chapter 2: Stars, Galaxies, and the Universe**

- Spectrum
- Absolute Magnitude
- Parallax
- White Dwarf
- Main Sequence
- Neutron Star
- Black Hole
- Nebular
- Open Cluster
- Cosmology
- Apparent Magnitude
- Light—year
- Red giant
- H-R diagram
- Supernova
- Pulsar
- Galaxy
- Globular Cluster
- Quasar
- Big Bang Theory

### **Chapter 3: Formation of the Solar System**

- Nebula
- Nuclear Fusion
- Crust
- Core
- Orbit
- Solar Nebula
- Sunspot
- Mantle
- Rotation
- Revolution

### **Chapter 4: A Family of Planets**

- Astronomical Unit
- Prograde Rotation
- Gas Giant
- Phase
- Comet
- Asteroid Belt
- Meteorite
- Terrestrial Planet
- Retrograde Rotation
- Satellite
- Eclipse
- Asteroid
- Meteoroid
- Meteor

### **Chapter 5: Exploring Space**

- Rocket
- NASA
- Low Earth Orbit
- Space Probe
- Space Station
- Thrust
- Artificial Satellite
- Geostationary Orbit
- Space Shuttle

## **UNIT 6**

### **Holt Science & Technology Short Course L: Interactions of Matter**

#### **Chapter 1: Chemical Bonding**

- Chemical Bonding
- Valence Electron
- Ion
- Covalent Bond
- Metallic Bond
- Chemical Bond
- Ionic Bond
- Crystal Lattice
- Molecule

#### **Chapter 2: Chemical Reactions**

- Chemical Reaction
- Chemical Formula
- Reactant
- Law of Conservation of Mass
- Decomposition Reaction
- Double Displacement Reaction
- Endothermic Reaction
- Law of Conservation of Energy
- Catalyst
- Precipitate
- Chemical Equation
- Product
- Synthesis Reaction
- Single Displacement Reaction
- Exothermic Reaction
- Activation Energy
- Inhibitor

### **Chapter 3: Chemical Compounds**

- Chemical Bond
- Covalent Compound
- Indicator
- Neutralization Reaction
- Salt
- Lipid
- Protein
- Nucleic Acid
- Ionic Compound
- Acid
- Base
- pH
- Organic Compound
- Hydrocarbon
- Carbohydrate