**8th Grade Curriculum**

***Biology***

*Cells, Heredity, and Classification Book*

*Holt Science & Technology*

Chapter 1

Section 1 The Basic Units of Life

Section 2 Eukaryotic Cells/Parts of the Cell

Section 3 Organization of Living Things

Chapter 2: The Cell in Action

 Section 1 Exchange with the Environment

 Section 2 Cell Energy

 Section 3 The Cell Cycle

Chapter 3: Heredity

 Section 1 Mendel & His Peas

 Section 2 Traits & Inheritance

 Section 3 Meiosis

Chapter 4: Genes & DNA

 Section 1 What does DNA look like?

 Section 2 How DNA works

***Physics***

*Forces, Motion, & Energy Book*

*Holt Science & Technology*

Chapter 1: Matter in Motion

 Section 1 Measuring Motion

 Section 2 What is a Force?

 Section 3 Friction: A Force that Opposes Motion

 Section 4 Gravity: A Force of Attraction

Chapter 2: Forces & Motion

 Section 1 Gravity & Motion

 Section 2 Newton’s Laws of Motion

 Section 3 Momentum

Chapter 3: Forces in Fluids

 Section 1 Fluids & Pressure

 Section 2 Buoyant Force

 Section 3 Fluids & Motion

Chapter 4: Work & Machines

 Section 1 Work & Power

 Section 2 What is a Machine?

 Section 3 Types of Machines

***Chemistry***

*Interactions of Matter Book*

*Holt Science & Technology*

Chapter 1: Chemical Bonding

 Section 1 Electrons & Chemical Bonding

 Section 2 Ionic Bonds

 Section 3 Covalent & Metallic Bonds

Chapter 2: Chemical Reactions

 Section 1 Forming New Substances

 Section 2 Chemical Formulas & Equations

 Section 3 Types of Chemical Reactions

 Section 4 Energy & Rates of Chemical

 Reactions

Chapter 3: Chemical Compounds

 Section 1 Ionic & Covalent Comnpounds

 Section 2 Acids & Bases

 Section 3 Solutions of Acids & Bases

 Section 4 Organic Compounds