**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