

Table of Contents

INTRODUCTION	3
CHAPTER 1: MATTER	
Section 1 – <i>What is Matter?</i>	4
Section 2 – <i>Atoms & Elements</i>	6
Section 3 – <i>Compounds & Mixtures</i>	7
CHAPTER 2: DESCRIBING MATTER	
Section 1 – <i>Properties</i>	9
Section 2 – <i>States of Matter</i>	11
Section 3 – <i>Changing States of Matter</i>	13
Section 4 – <i>Physical & Chemical Changes</i>	15
CHAPTER 3: MOTION & FORCES	
Section 1 – <i>Speed, Velocity, & Acceleration</i>	17
Section 2 – <i>Balanced & Unbalanced Forces</i>	18
Section 3 – <i>Newton's Laws of Motion</i>	20
CHAPTER 4: WORK & ENERGY	
Section 1 – <i>Work & Simple Machines</i>	23
Section 2 – <i>Kinetic & Potential Energy</i>	25
CHAPTER 5: HEAT	
Section 1 – <i>Temperature</i>	28
Section 2 – <i>Heat Transfer</i>	30
CHAPTER 6: SOUND	
Section 1 – <i>Waves</i>	32
Section 2 – <i>Wave Interactions</i>	36
Section 3 – <i>All About Sound</i>	38
CHAPTER 7: LIGHT	
Section 1 – <i>Properties of Light</i>	40
Section 2 – <i>Reflection & Color</i>	42
Section 3 – <i>Refraction & Lenses</i>	45
CHAPTER 8: ELECTRICITY	
Section 1 – <i>Electrical Charge & Force</i>	47
Section 2 – <i>Current</i>	49
Section 3 – <i>Types of Circuits</i>	51
CHAPTER 9: MAGNETISM	
Section 1 – <i>Magnets & Magnetic Fields</i>	55
Section 2 – <i>Electricity & Magnetism</i>	58
GLOSSARY	61