



Section I: Forces and Motion

Lesson 1 – (Section I)

Science

What is science?

Experiment: Build the car

Lesson 2 – (Section I)

Force

Pulling and pushing forces

Experiment: Forces and the car: move, change direction, change shape

Lesson 3 – (Section I)

Gravity

Gravity and the earth

Experiment: Gravity and the car

Lesson 4 – (Section I)

Location

What is an object's location?

Experiment: Location and the car

Lesson 5 – (Section I)

Energy

What uses energy?

Experiment: Amount of energy used with car and chair

Lesson 6 – (Section I)

Speed

How fast does something move?

Experiment: Speed, the car, and a quarter

Lesson 7 – (Section I)

Machines

Machines make it easier to move objects

Experiment: The car is a machine

Lesson 8 – (Section I)

Wheels and Pulleys

A wheel is a machine

Experiment: Wheels into pulleys

Lesson 9 – (Section I)

Friction

What is friction?

Experiment: The car and friction

Section II: Magnets and Electricity

Lesson 1 – (Section II)

Magnet

What is a Magnet?

Experiment: Build the magnetic sail boat

Lesson 2 – (Section II)

Magnets and their Poles

North and South poles of a magnet

Experiment: North and South poles and the magnetic sailboat

Lesson 3 – (Section II)

Attract

Magnets attract different types of metal

Experiment: Magnets attracting metals

Lesson 4 – (Section II)

Magnets and their fields

Magnetic field

Experiment: Magnetic attraction and the sailboat

Lesson 5 – (Section II)

Compass

Compass pointers and magnets

Experiment: Make a compass

Lesson 6 – (Section II)

Energy

Energy and movement, light, and heat

Experiment: lights, batteries and energy

Lesson 7 – (Section II)

Charge

Electrical Charge

Experiment: Electrical charge and jumping pepper

Lesson 8 – (Section II)

Circuit

Circuits are a path for electricity

Experiment: Make a simple circuit

Lesson 9 – (Section II)

Current

What is an electric current?

Experiment: currents, lights, and safety



Section III: Matter

Lesson 1 – (Section III)

Matter

What is matter?

Experiment: Build the balance scale

Lesson 2 – (Section III)

Properties

Properties of matter

Experiment: determine differences in matter's properties using the balance scale

Lesson 3 – (Section III)

Mass

Mass, matter, and weight

Experiment: Mass and the balance scale

Lesson 4 – (Section III)

Measure

Measuring an object's size

Experiment: Measurement and the scale

Lesson 5 – (Section III)

Groups

Grouping matter

Experiment: Sorting matter into groups with the balance scale

Lesson 6 – (Section III)

Forms

The three forms of matter

Experiment: Discovering solids, liquids, and gases

Lesson 7 – (Section III)

Change

Changing forms

Experiment: Matter changing forms and the scale

Lesson 8 – (Section III)

Heat

Heat and movement

Experiment: Heat movement and transfer (scale)

Lesson 9 – (Section III)

Atom

Matter is made up of atoms

Experiment: Mixing atoms with the scale

Section IV: Light and Sound

Lesson 1 – (Section IV)

Light

What is light?

Experiment: Build the top

Lesson 2 – (Section IV)

Reflect

Reflection – bouncing back light

Experiment: Use the top to reflect light

Lesson 3 – (Section IV)

Color

Sunlight and color

Experiment: Separating sunlight into colors using the top

Lesson 4 – (Section IV)

Absorb

Absorbing light and colors

Experiment: Using the top to identify which colors are absorbed.

Lesson 5 – (Section IV)

Shadow

Shadows and blocking light

Experiment: Making shadows with the top

Lesson 6 – (Section IV)

Eye

Our eyes and light

Experiment: How does light travel (top)?

Lesson 7 – (Section IV)

Sound

What is sound?

Experiment: Sound and vibration

Lesson 8 – (Section IV)

Volume

How loud are sounds?

Experiment: Changing the volume of sounds

Lesson 9 – (Section IV)

Pitch

How high or low is the sound?

Experiment: The kazoo and pitch