

TEACHER'S MANUAL

This Suitcase Program provides the materials and lesson plans for teachers of grades 3-5 with content and activities increasing in difficulty by grade level. Activities in this Suitcase Exhibit may assist in meeting the Tennessee State Standards.

ACTIVITIES

CHAPTER 1: Getting Started

Introduction: What is Electricity?

Electrical Safety

Kitbook Safety

CHAPTER 2: Simple Circuits

Introduction: Parts of A Circuit

ACTIVITY 1: Simple Circuits

ACTIVITY 2: Lamp

ACTIVITY 3: Buzzer

CHAPTER 3: Batteries

Introduction: How Batteries Work

ACTIVITY 4: Batteries

CHAPTER 4: Conductors and Insulators

Introduction: To Flow or Not to Flow

ACTIVITY 5: Conductors & Insulators

CHAPTER 5: Switches

Introduction: How Switches Work

Controlling Flow

ACTIVITY 6: Switches

CHAPTER 6: Series Circuit

Introduction: Single Path

Loads in Series

ACTIVITY 7: Series Circuits

CHAPTER 7: Parallel Circuits

Introduction: Multiple Paths

Loads in Parallel

ACTIVITY 8: Parallel Circuits

CHAPTER 8: Electromagnetism

Introduction: Magnets & Magnetism

Attractive Forces

ACTIVITY 9: Electromagnets

INVENTORY CHECKLIST

TENNESSEE STATE STANDARDS FOR 3-5

3.PS2.1 Explain the cause and effect relationship of magnets.

3.PS3.2 Apply scientific ideas to design, test, and refine a device that converts electrical energy to another form of energy, using open or closed simple circuits.

For the entire activity and materials and to reserve a Suitcase Exhibit, please call 901.636.2362.

Suitcase Exhibit Inventory Checklist

School: _____

Check Out: _____

Return Date: _____

MoSH Check In:	Teacher Check In:	Item	Materials	Teacher Return:
		1	Teacher KitBook	
		2	Student KitBook (14)	
		3	Activity Boards (14)	
		4	Copper Wire	
		5	Shiny Pennies (2)	
		6	Galvanized Nails (2)	
		7	LCD Clock	
		8	Multi-meter	
		9	Glass Jar	
		10	Metal Spoons (2)	
		11	Salt	
		12	AA Batteries (2)	
		13	Un-insulated Copper Wire	
		14	Wall Switch	
		15	Doorbell Switch	
		16	Rotary Switch	
		17	Simple Telegraph	
		18	Student Worksheet Folder	
		19	Extra Batteries (5 AA)	