

**Jefferson County Educational Service Center  
Virtual Learning Academy  
Required Course Materials  
SCI 150: SCIENCE 150**

**Unit 01: Rocks and the Formation of Rocks**

10 or more shallow bowls (such as petri dishes), 5 small, clean rocks, 4 small miscellaneous objects (such as nails, aluminum foil, shells, or marbles.), pan, spoon, measuring cup, 4 cups of Epsom salts, 2 cups water, magnifying glass and a flashlight

**Unit 03: Weathering**

3 plastic pop bottles, crushed rock or limestone, and 3 clear glasses the same size

**Unit 10: The Solar System**

1 ball about 7/8 inches in diameter for the sun  
1 roll of adding machine paper or register paper 31 feet long

**Unit 11: The Moon and the Earth**

2 large index cards, a globe and a light source

**Unit 14: Refraction: Bent Light**

9 inch x 12 inch sheet of white poster board, ruler, scissors, clear plastic container, small mirror, water, a little milk; a drinking straw; a flashlight; a darkened room. large round glass jar, a shoe box

**Unit 15: Refraction: Bounced Light**

Piece of strong black cardboard, small mirror, square or rectangular, scissors, flashlight, darkened room. spoon, sunglasses, a door knob and a make-up mirror

**Unit 16: Nature of Sound**

Chair, rubber band, table, wooden or plastic ruler, stainless steel fork, spoon, a wrist watch (not digital), a table

**Unit 17: The Role of the Producer**

A houseplant, small shrub or leafy tree, cardboard or aluminum foil, scissors, paper clips, glass of water, food coloring, scissors, long stemmed white flower, hand lens

**Unit 19: The Nature of Energy**

Two identical balloons, a ruler and string, a cup of hot chocolate, an ice cube, can of soup, cooking pot, a spoon, thermometer, container

**Unit 20: The Nature of Energy**

A small container of warm water, another small container of water, three styrofoam cups, a timer, and three spoons: metal, wooden, and plastic, paper and pencil, a hair dryer, clear

glass cooking pot, water, and food coloring, shallow pan (old metal baking pan), sand, small rocks, sunny window

### **Unit 22: The Nature of Energy – Electricity Part II**

Bar magnet (with N and S marked), iron filings, clear plastic sheet (such as a report cover), two (2) – 25 inch strips of insulated copper wire, wire stripper, dry cell battery (1.5 volt), 2 iron nails, box of small paperclips, small inexpensive compass, (9) 1 inch by 2 inch strips of paper towel in a small dish of lemon juice, 5 dimes and 5 pennies

### **Unit 26: The Impact of Technology-Engineering**

Scissor, one ping pong ball, four straws, scotch tape, four popsicle sticks, two rubber bands, one sheet of poster paper (stiff like tag board or one side of a file folder.), six sheets of typing paper, a stopwatch or a wristwatch with a timer, safety glasses

### **Unit 28: Scientific Way of Knowing**

Plastic zipper bags, dry lima beans (from the grocery store), water, paper towels

### **Unit 30: Renewable and Non-renewable Resources**

Two identical flashlights and two identical non- rechargeable batteries