

Materials List

Most of the materials you will need can be easily located in your classroom or at home. Most local hardware stores stock these materials as well.

1. 7-8 washers
2. Small metal car
3. 3-4 meter sticks
4. 4-5 large books
5. Tape
6. Weights or washers
7. Balloons - the long and thin kind
8. Clothespin
9. Drinking straw
10. 6 feet long piece of string
11. Tape - masking tape or Scotch tape
12. Stop watches
13. 1 Meter stick
14. Masking tape
15. Bubble Gum
16. Red food coloring
17. Same size containers (e.g., beakers, glasses, measuring cups)
18. Room temperature water, hot water, and cold water
19. Access to sunlight (outdoors preferable)
20. Water
21. White paper, scissors, and tape to cover beaker sides
22. Small pieces (the size of beaker tops) of various window coverings such as: screens, tinted shading
23. Curtain materials (may use more than one type), window blinds, vinyl window shade, glass (to represent double panes)
24. Thermometer for each type of covering
25. Two chairs
26. Masking tape
27. Yard or meter sticks
28. Metric ruler
29. 3 shooter marbles
30. One 8 feet strip of vinyl ceiling molding
31. 3 marbles (Different sizes &/or weights)
32. Inclined plane
33. Milk carton
34. Five forms of apple products to serve as visual aids:
35. Home-grown apple
36. Jar of homemade applesauce
37. Store-bought apple
38. Jar of store-bought applesauce
39. Store-bought applesauce in "snack packs"
40. Writing utensil
41. Poster board
42. Battery
43. Three leads

44. Light bulb
45. Two soft pencils
46. A brown lunch sack to contain:
 - i. One C cell battery
 - ii. Two insulated copper wires
 - iii. One battery holder and two brass battery clips
 - iv. One small flashlight bulb and socket
47. Computer with internet access
48. Electrical Appliance worksheet, and pencil for students
49. Computers that have Shockwave capabilities. If your computers don't have it, you can download it for free from the internet.
50. Graph paper
51. 1 solar cell (you can get this from Radio Shack; 2cm by 4cm)
52. 1 Digital Voltmeter (you can get this from Radio Shack; they stock different models)
53. 1 Digital indoor/outdoor thermometer
54. 1 lamp w/100 watt bulb
55. 1 shoe box
56. 2 dowels- 2.5 cm
57. 2 large bottle of airbrush propellant
58. 1 hair dryer
59. 1 pair of scissors
60. 1 large piece of plywood
61. A fan
62. Voltage Meter (you can get this from Radio Shack; they stock different models)
63. String
64. Two screws
65. Protractor
66. Transparent tape
67. Safety scissors
68. 9 straws (For each student)
69. 1 cardboard strip (2 inches X 6 inches) – For each student
70. Ticking Watch
71. Paper towel cardboard tube
72. Large cake or cookie tin
73. Sheet of plastic
74. Strong rubber band
75. Baking tray
76. Wooden spoon
77. Sand
78. String
79. Three identical weights
80. Two cardboard tubes
81. Ticking clock
82. Large cardboard (15 in. x 15 in.)
83. Pieces of fabric
84. Pieces of foam
85. Strips of pliable magnets (www.edutc.com)
86. Plexiglas
87. Foam core board
88. Disk ceramic magnets

89. Teflon tape (optional)
90. Extra-fine steel wool
91. Plastic bottle full of baby oil with paper label
92. Scissors
93. 3 steel metal bars
94. 2 meters of copper wire
95. 1 9V battery
96. 2 needle nose pliers
97. 1 small glass
98. 20 grams of iron filings
99. 1 grain scale
100. Donut magnets
101. Two pieces of cardboard (about 5 x 7 cm)
102. Two 1/4- inch dowels, 7 cm or longer (pencils work fine)
103. Five or six paper clips
104. Popsicle stick, straw, any nonmetallic material
105. Strip of metal strapping tape (or a butter knife)
106. Hot glue gun
107. A small shallow dish
108. A slice of cork
109. A steel needle
110. An iron needle
111. 1/4" to 1" diameter rod or similar part to use as a fulcrum
112. Broom handle
113. Jug with a closed handle filled with sand or water
114. Twine or rope
115. Small bag filled with about 1 cup of rice or dried beans closed with a twist tie
116. Rubber band
117. Table top
118. Toy dump truck
119. A block of wood
120. Scrap lumber - at least 5 cm thick
121. Four screws - the same length with various numbers of threads
122. Screw drivers
123. Wedges of different thickness
124. Screw Drivers
125. Spectra of elements (provided with the experiment. Element spectra are provided on CD-ROM)
126. Mystery star spectra (provided with the experiment)
127. UV beads
128. Assorted empty prescription containers
129. Straight-sided glass or jar
130. A piece of card with a 1/2 inch slit cut into it
131. One sheet of white paper
132. White cardboard cut into a circular shape
133. Protractor
134. Sharpened pencil
135. Paint brushes
136. Paint:
 - i. Yellow

- ii. Green
- iii. Cobalt blue
- iv. Violet
- v. Red
- vi. Orange