

A Logos Science Lab Kit for use with  
BJU Press Physical Science (6th Ed.)



Designed and manufactured by



[www.logosscience.com](http://www.logosscience.com)

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Used in conjunction with the BJU Press Physical Science Lab Manual, The Logos Science Physical Science Addendum and Lab Kit contains information, equipment, and supplies your student needs to fully experience the awe-inspiring, interactive world of the physical sciences as mapped out in the BJU Press Physical Science Lab Manual. Logos has completely tuned the Physical Science Addendum and Laboratory Kit with the BJU Press Physical Science Lab Manual to: 1) eliminate the need for high cost equipment, 2) maximize safety for non-traditional laboratory settings, 3) maximize the advantages of non-traditional learning environments (e.g. home school and small class settings), and to 4) maximize each student's exaltation of our Creator by the witnessing of strikingly reproducible interactions between various physical components of His marvelous works.

## Contents

### Equipment and Supplies

bags, resealable, sandwich  
ball, small, bouncy  
ball, tennis  
battery, 1.5 volt AA (5)  
battery holder  
beaker, 50 mL  
beaker, 100 mL  
beaker, 150 mL  
beaker, 250 mL  
beaker, glass, 400 mL  
beaker, 600 mL  
bolt, steel, 3/8" (3.5" length)  
breadboard  
buzzer, electric  
car, model, 3 different types  
cardboard (20 cm x 20 cm)  
cardboard (8.5" x 11")  
cardstock (8.5" x 11")  
cart  
cellulose  
centrifuge tubes, 15 mL  
coffee filters  
colored pencils  
compass, magnetic, small, (5)  
conductivity tester  
construction paper  
copper shot  
craft sticks  
cup, paper  
cup, plastic, mini (2)  
cups, foam, (2)  
cylinder, graduated, 10 mL  
cylinder, graduated, 25 mL  
cylinder, graduated, 50 mL  
cylinder, graduated, 100 mL  
diffraction grating  
dowel, wooden (30 cm)  
Erlenmeyer flask, 250 mL

flashlight  
friction block (same as support board)  
funnel, filter  
goggles, safety  
gloves, nitrile  
iron filings  
laboratory balance  
LED (3)  
lens, converging (about 20 cm focal length)  
lens holder  
magnet  
metal samples (3)  
mirror, plane  
mirror support  
multimeter (3)  
nail, iron  
paperclip, large  
paperclips, small, 1 box  
pins, straight  
pipet, disposable  
pipet, graduated  
protractor  
pulley, double (2)  
pulley clamp  
reaction plate, 24-well  
resistors (220  $\Omega$ ) (3)  
resistors (5)  
rubber band  
ruler, metric, wood  
sand  
slotted mass set with hanger  
spring  
support board  
tape measure, metric  
teaspoon, plastic  
test tube rack  
test tubes (13x100)

thermometer  
thread, strong  
tongs (crucible)  
toy boat  
tubing, 1/4", plastic (12" length)  
tubing, laboratory, 1 m (2 lengths)  
tuning fork, 1024 Hz  
wash bottle  
washers  
wax (candle)  
wax paper  
wire, insulated, 22-gauge (2 m)  
wire, nichrome inoculating (4")  
wires, jumper  
wooden peg (1 cm)  
wooden spool  
zinc, mossy

### Chemicals

biuret solution  
bromothymol blue ( $C_{27}H_{28}Br_2O_5S$ )  
calcium chloride ( $CaCl_2$ )  
calcium hydroxide ( $Ca(OH)_2$ )  
copper (II) chloride ( $CuCl_2$ )  
hydrochloric acid (HCl, 0.1 M)  
magnesium chloride ( $MgCl_2$ )  
phenol red (0.02% solution)  
potassium chloride (KCl)  
sodium hydroxide (NaOH, 0.1M)  
starch solution  
strontium chloride sol. (16%,  $SrCl_2$ )  
trisodium citrate ( $Na_3C_6H_5O_7$ )

### Indicators

litmus paper (purple)  
Universal pH paper



**WARNING! CHOKING HAZARD:**  
-Small parts. Not for children under 3 years.