

Physical Science Supplies List 2025-2026

ESSENTIAL EQUIPMENT (Used Multiple Times)

Digital Scale - \$30

Used in Labs: 2, 3, 11, 21, 23, 25, 27

Purchase from: <https://www.amazon.com/Weigh-Gram-Digital-Jewelry-Kitchen/dp/B06Y61YW7S>

Note: 100 gram capacity (0.01g accuracy) or use kitchen scale

Thermometer - \$2.65

Used in Labs: 2, 11, 25, 26

Purchase from: <https://www.homesciencetools.com/product/thermometer-plastic-back/>

100ml Graduated Cylinder - \$6.99

Used in Labs: 2, 12, 25

Purchase from: <https://www.amazon.com/100ml-Plastic-Graduated-Cylinder-Beaker/dp/B0728C224F>

Meter Stick - \$4.00

Used in Labs: 2, 20, 21, 22, 23

Purchase from: <https://www.amazon.com/Westcott-10431-Wooden-Meter-Stick/dp/B000J0ARWW>

6 Volt Battery - \$4.99

Used in Labs: 5, 15, 16

Purchase from: <https://www.amazon.com/Eveready-Volt-Lantern-Battery-1209/dp/B0043CHX38>

NOTES:

- **Safety First:** Some chemicals require careful handling - instructor will provide safety instructions
- **Alternatives Available:** Many expensive items have cheaper alternatives or can be shared among students
- **Online Options:** labs can be completed virtually, live using the class zoom link if preferred
- **Reusable Items:** Items marked as "used in multiple labs" are good investments
- Order chemicals and specialized equipment early to ensure arrival before lab dates
- Contact instructor if you have questions about substitutions or safety

SUPPLIES BY LAB

Lab 1: Scientific Method (Week 1)

- Wooden popsicle sticks (at least 30)
- Large paper clips (6)
- Plastic cups (2)

- Rubber bands (6)
- Wooden clothespins (5)
- Weights (coins or washers)
- Ruler
- Table or desks (with a 15 cm gap between)

Lab 2: Measuring and Metric System (Week 2)

- **Digital Scale** (see above)
- **Thermometer** (see above)
- **100ml Graduated Cylinder** (see above)
- **Meter Stick** (see above)
- Metric ruler
- Paper plate
- 20 cotton balls
- 1 sponge
- Tap water

Lab 3: Conservation of Mass (Week 3)

- Baking soda, vinegar
- 9-12 inch balloon
- Small Erlenmeyer flask
- **Digital Scale**

Lab 4: Building Atoms & Isotopes (Week 4)

- Beads or beans (3 different colors - 30 of each)
- 5 small cups
- Calculator

Lab 5: Metals and Nonmetals (Week 5)

- Aluminum foil, hammer
- Graphite (mechanical pencil)
- **6 Volt Battery** (see above)
- **Electrode Set** (copper, magnesium, zinc, iron) - \$6.40 ([Link](#))
- **2 Sets Alligator Wires** - \$2.45 each ([Link](#))
- **3 Mini Light Bulbs** (6.3V) - \$0.75 each ([Link](#))
- **3 Mini Light Bulb Receptacles** - \$1.10 each ([Link](#))
- **Sulfur Chunk** - \$7.80 ([Link](#))

Lab 7: Chemical Bonding (Week 7)

- Small beads or beans (from Lab 4)
- Scissors

Lab 8: Formula Writing/Naming (Week 8)

- Red, green, and blue crayons
- Scissors, scotch tape
- Build dice (instructions on last page of lab)

Lab 9: Chemical Reactions (Week 9)

- Steel wool, lighter or propane torch
- Baking soda (2 tsp), popsicle stick
- Copper wire (from inside extra wire)
- 1 marble rock
- **Test Tube Clamp** - \$2.35 ([Link](#))
- **2 Test Tubes** - \$2.75 ([Link](#))
- **Silver Nitrate Solution** - \$13.26 ([Link](#))
- **Calcium Carbonate** - \$4.73 ([Link](#))
- **Dilute Nitric Acid** (500ml) - \$20 ([Link](#))

Lab 10: To Glow or Not to Glow (Week 10)

- **3 Glow Sticks** - \$2.50 each ([Link](#))
- Three glass cups

Lab 11: Saturated Solutions (Week 11)

- Granulated sugar
- Hot water, cold water
- Timer (phone/kitchen timer)
- 4 glass cups
- **Thermometer** (from Lab 2)
- **Digital Scale** (from Lab 2)

Lab 12: Acids and Bases (Week 12)

- 3 colorless sodas (Sprite, 7-Up, mineral water - 30ml each)
- 4 small cups or test tubes
- **pH Paper** (80 pack) - \$1.95 ([Link](#))
- **Litmus paper**

Lab 14: Preparing an Alloy (Week 14)

- 1 penny, tongs
- **Mossy Zinc** - \$5.15 ([Link](#))
- **Dilute Nitric Acid** (from Lab 9)
- **Sodium Hydroxide** (from Lab 12)
- **2 Evaporating Dishes** (100ml) - \$3.70 each ([Link](#))
- **Hot Plate** - \$16.99 ([Link](#))

Lab 15: Series and Parallel Circuits (Week 15)

- 3 AA batteries, 3 DD batteries, 3 9V batteries
- **Alligator Wires, Light Bulbs, Receptacles, 6V Battery** (from Lab 5)
- **Voltmeter/Multimeter** - \$9.13 ([Link](#)) or \$14.95 ([HST Link](#))

Lab 16: Electricity and Magnetism (Week 16)

- Nail or large bolt
- 2 ft coated copper wire
- **2 Magnets** - \$1.70 each ([Link](#))

- **Voltmeter** (from Lab 15)
- **Alligator Wires and Light Bulbs** (from Lab 15)

Lab 20: Speed (Week 20)

- Wood ramp or hot wheels ramp (5 meters/16.25 feet)
- 1 hot wheels or matchbox car
- Timer (phone)
- Masking or duct tape (1 ft)
- Stack of books
- **Meter Stick** (from Lab 2)

Lab 21: Momentum (Week 21)

- 3 marbles (small, medium, large)
- Small cardboard jewelry box
- **Meter Stick** (from Lab 2)
- **Outside Corner Wood Molding** (1 meter/40 inches) - \$8.88 ([Link](#))
- **Marbles Set** - \$9.98 ([Link](#))
- **Small Cardboard Boxes** (10 pack) - \$9.99 ([Link](#))
- **Protractor** - \$6.65 ([Link](#))
- **Digital Scale** (from Lab 2)

Lab 22: Force and Acceleration (Week 22)

- Meter stick, weight, stop watch, scale

Lab 23: Work & Power (Week 23)

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|-------------------------------|-------|------------------------------------|
| • Stopwatch (to measure time) | Scale | Meter stick (to measure height) |
| • Calculator | Tray | Stick with string attached to 1 Kg |
| weight | | |

Lab 24: KE and PE (Week 24)

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|---|---------|-------|-------|------------|--------------|--------|
| • | Weights | Carts | Ramps | Scales (g) | Meter sticks | Timers |
|---|---------|-------|-------|------------|--------------|--------|

Lab 27: Investigating Density (Week 27)

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|-------------------|---------------------------------------|-------------------------------|
| • One Density rod | Digital scale (± 0.1 g accuracy) | Ruler (with mm/cm precision) |
| • Calculator | Lab worksheet | Metal Density Reference Chart |
| Marbles | Graduated Cylinder | Water |