Appendix B Equipment and Supplies

A list of equipment and supplies for all experiments is given below. The amounts listed are for a class of up to 30 students working in groups of two, three, or four students in a classroom equipped with eight calculators. The materials have been divided into **nonconsumables,** and **comsumables**. Most consumables will need to be replaced each year. Most nonconsumable materials may be used many years without replacement. Some substitutions can be made.

All of these items are very common in a physics or chemistry stockroom. Most math teachers can obtain these items by borrowing them from their science colleagues.

Nonconsumables

Item	Amount	Experiment
ball, rubber (5-20 cm)	8	11, 19
battery, 9V	8	18
beaker, 250 mL (or cup)	8	20
bottle, soda, 1 L	8	5
bucket, small	8	4
capacitor, 220 µF	8	18
cart, small	8	10
clamp, utility	8	8
cup, Styrofoam™	16	7
DC point light source (such as a Maglite®)	8	16
dowel, wooden (1 x 50 cm)	8	14, 23
eyedropper	8	20
funnel	8	4
goggles, safety	30	5, 20, 31
graduated cylinder, 25 ml	8	31
mass hanger, slotted	8	8, 27
measuring cup, graduated	8	7
meter stick	8	3, 6, 14, 16, 21, 25, 30
paper clip	8	3
pendulum bob	8	22, 25
pipe, clear with cap (1.2 m)	8	3
ramp, board or track (1.2 m)	8	10
resistor, 100 kΩ	8	18
ring stand	8	8
rubber band, large	8	9

spring (small spring) or a Slinky ®	8	8, 27
stopper, rubber, single-hole (#1)	8	5
stopwatch	8	25, 30
string	10 m	4, 6, 21, 25
tubing, clear, aquarium	12 m	3
tuning fork, 256 hz	8	26
wash bottle	8	20, 31
weight, small	8	3

Consumables

Item	Amount	Experiment
ammonia, household	500 mL	31
antacid tablets, effervescent	24	5, 20
juice, lemon	40 mL	20
plate, paper	8	27
tape, masking	1 roll	14
vinegar, household	500 mL	31
water, distilled	4 L	20, 31