Course Materials

The following chart lists the items you may wish to use for a class of 30 using the *BC Science 10* program. The activities can be carried out by pairs of students, unless the instructions clearly specify that students should work on their own. Suppliers of science lab materials and equipment are listed in the suppliers' section of this Teacher's Resource.

Item Description	Suggested Quantity	Needed for These Units
alcohol thermometer	15	4
aluminum foil	50 cm	2
aluminum foil, sheets small (5 cm by 5 cm)	20	2
baking pan	15	4
balance	15	2
balloons	45	4
battery, 9.0 V	15	2
beaker, 60 mL	15	4
beaker, 100 mL	30	2
beaker, 250 mL	15	4
beaker, 400 mL	30	2
beaker, 600 mL	45	4
beaker, 1000 mL	15	4
beaker, Pyrex© large	1	2
boiling chips	15	2
brass test tube holder	15	2
brick or block of wood	15	4
bromothymol blue solution	750 mL	2
Bunsen burner	15	2
calcium chloride solution ($CaCl_2$)	1300 mL	2
calcium metal	5 g	2
calculator	15	1
candies, coloured	0.5 kg	1
candle	1	2
candles, small, birthday-type or wax strips	1 box or 120 strips	4
candle wax	approx. 300 g	4
carbon disk	15	3
cardboard (about 5 cm by 20 cm)	15	4
cardboard squares, large (8 cm)	120	1
cardboard squares, small (2 cm)	2000	1
cardboard, small pieces	30	4
cardboard, thin 21.5 cm by 28 cm	15	4
C-clamp	15	3
ceramic pad	15	2
chart paper	15	4

clear adhesive tape	15	4
clear plastic wrap	1 roll	4
conduction bars (steel, brass, copper, aluminum) 8 cm each	60	4
construction paper, dark (approx. 5 cm by 10 cm)	15	4
container for shaking 100 pennies	15	2
copper wire	100 cm	2
copper(II) chloride powder ($CuCl_2$)	125 g	2
copper(II) chloride solution ($CuCl_2$)	1250 mL	2
data collection device, such as computer or graphing calculator	15	3
data table	10	1
dice	15	1
dish soap	1.5 mL	2
domino tiles	15 sets	2
dry cell, 9.0 V	1	2
dynamics cart	15	3
effervescent tablets	45	2
eggs, raw	16	3
elastic bands	60	4
Erlenmeyer flask, small	15	2
Erlenmeyer flasks	45	2
filter paper, (7.5 cm)	90	1
food colouring	1 small pack	2, 4
fume hood	1	2
fur (cloth) balls, three different colours	900	2
Geiger-Müller counter	1	2
glass baking dish (≈4 cm by 12 cm by 30 cm)	15	4
glass jars or soft drink bottles of the same size and shape	30	4
glass stirring rod	15	2
glue	15	1, 4
glue stick	15	1
graduated cylinder, 10 mL (or 10 mL pipette and bulb)	15	2
graduated cylinder, 50 ml	15	1, 2
graduated cylinder, 200 mL	1	2
graph paper	160 sheets	1, 2, 3,4
hot pad	1	2
hot plate	15	4
hydrochloric acid	2 L	2
hydrochloric acid (12 M)	2 L	2
hydrogen peroxide solution 6% (H_2O_2)	200 mL	2
indicator colour chart	15	2
indigo carmine solution	750 mL	2
iron nails (not stainless steel)	30	2
iron(III) chloride solution ($FeCl_3$)	500 mL	2

lamp with 100 W incandescent bulb	15	4
lead, sheets small (5 cm by 5 cm)	5	2
lettuce seeds	450	1
light bulb socket with clamp	15	4
light bulb, 100 W	15	4
light bulb, 60 to 100 W	15	4
litmus paper, blue, pieces	60	2
litmus paper, red, pieces	60	2
magnesium carbonate solid	100 g	2
magnesium hydroxide slurry (milk of magnesium)	45 g	2
magnesium metal ribbon	285 cm	2
magnesium sulphate powder ($MgSO_4$)	100 g	2
marker, labelling	15	1, 2
markers, coloured	15	1
masking tape	15 rolls	2, 3, 4
matches or flame striker	15	2, 4
measuring tapes (50 m)	15	3
medicine dropper (or burette and stand)	15	2, 4
methyl orange solution	750 mL	2
metre stick	30	3
mortar and pestle	15	2
motion sensor	15	3
name tags	30	1
newspaper, full sheet	15	4
nickel(I) chloride solution ($NiCl_2$)	500 mL	2
organic model kit	15	2
paper squares or self-adhesive removable notes	60	1, 3
paper towel	2 rolls	2
paper, 21.5 cm by 28 cm piece	15	4
paper, 28 cm by 43 cm piece	15	4
paper, blank	60	1, 2
paper, large sheet	7	1
pencil crayons	15	1, 4
pencil, blue	15	1
pencil, red	15	1
pennies or other two-sided objects (e.g., candies)	1500	2
petri dish	90	1, 2
pH buffer (pH 2, pH 7, pH 10 and pH 12)	1 L each	2
pH paper, pieces	15	2
phenolphthalein indicator solution	750 mL	2
plastic bowl, small	1	2
plastic pan	1	2
plastic spoon	15	2
plywood (5 cm by 5 cm)	1	4
poster paper	6	4

potassium iodide powder (KI 1.0M – 166 g/L of anhydrous KI)	200 g	2
protractor	15	4
recording timer (60 Hz)	15	3
reflecting lamp with clamps	15	4
ring stands	30	4
ring stand clamp	15	4
rubber stopper with glass tube insert and rubber tube attachment	15	2
ruler	15	1, 3
sand	approx. 300 g	4
sand, light coloured	1500 mL	4
sandpaper, piece or triangular file	15	2
scissors	15	1, 4
scoop	15	4
sealable plastic bag	15	1
sifted flour	30 mL	2
sifter	1	2
slightly radioactive material, such as Vaseline glass, salt substitute containing potassium, old radium-style watch (1950s era)	15	2
small bags or containers	15	1
small objects (e.g., foam balls, paper clips and cloth balls to represent subatomic particles)	500	2
sodium carbonate powder Na_2Co_3	130 g	2
sodium carbonate solid	100 g	2
sodium carbonate solution (Na_2C0_3)	1300 mL	2
sodium chloride (NaCl)	500 g	2
sodium hydroxide	500 g	2
soft material, various (foam, crushed paper, bubble wrap, etc) enough for each pair	15	3
soil, dark-coloured	1500 mL	4
solid rubber stopper	15	2
soup can, empty or other can with one end removed	15	4
spot plate, 4 by 6	15	2
stapler	15	1
steel ball	15	3
steel wool	1	2
stopwatch	15	2, 3, 4
straw or wooden skewer	15	4
string	6 spools	2
strips of coloured paper, 2 cm wide	120	1
Styrofoam© block, 5 cm by 5 cm	1	4
Styrofoam© or plastic cups	60	4
table salt, unrefined (salt mixed with washed sand)	500 g of each	2

test tube rack	15	2
test tube tongs	15	2
test tubes, large diameter	15	2
test tubes, medium diameter	90	2
test tubes, small diameter	60	2
thermometer	45	2, 4
thermometer clamps	45	4
thermometer or temperature probe	45	4
thermometer, outdoor	15	4
ticker tape	150 m	3
toothpicks	15	4
toy car, battery-powered	15	3
toy cars, 2 different kinds (wind-up or friction)	15	3
universal indicator	750 mL	2
wire leads with graphite electrodes	30	2
wood strapping (about 8 mm thick, at least 60 cm long)	15	4
wooden splints	180	2
zinc metal (mossy)	100 g	2
zinc metal, pieces	15	2