

Characteristics of Matter

Supplies for one classroom for one session

A. Pressure and Density

Graduated cylinder, 50 mL

Containers containing corn syrup, coffee, vegetable oil, and ethanol

Vials containing bolts, NMR rubber stoppers, NMR plastic caps, cork

~30 1-mL plastic syringes without needles

Beaker

B. Boiling

Balloons

Liquid nitrogen dewar, 4 L

Small liquid nitrogen dewar

Tongs

Thick gloves

Racketball

C. Vacuum

Small vacuum pump

Desicator and rubber tubing to connect to vacuum

Beaker

Balloons

Marshmallows

D. Sublimation and Melting

Iodine vial

Cotton balls

Dry ice

Film canister

Tongs