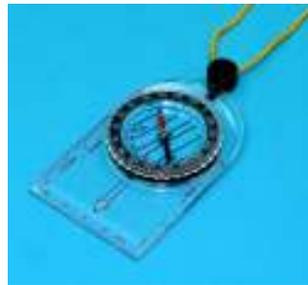


**COMPASS**



PA-138

**Liquid Filled Magnetic Compass, Model PA-138**, diam. 50mm, a durable, in a black plastic case. A transparent see-through design makes this ideal for use with maps and charts.



PA-139

**Map Compass, Model PA-139**, A 45mm diameter liquid filled compass is mounted on a 55 x 90 mm The transparent base plate has scales in inches and millimeters, with lanyard.



PA-144

**Explorer Compass, Model PA-144**, liquid-filled transparent housing, diam. 45 mm, encloses a highly magnetized needle set on a sapphire bearing. Dial is graduated in 2 deg increments. 2 commonly used topographical map scales - mileage scale and kilometer scale. (60 x 140 x 17mm)



PA-144A

**Compass with clinometer, Model PA-144A**, liquid-filled, side mirror, transparent protactor plate and a transparent housing. The red and black needle rides on a jewel bearing for minimum friction. Any incline can be read accurately to 2 degree. An engineer scale in inches is on one side of the base plate and a millimeter scale is on the other, the compass measures 110 x 64 x 20mm., with lanyard.



PA-161B



PA-161

**Pocket Compass**, a format compass in aluminum case, marked in degrees, with N and S indication. Suitable for use as a plotting compass or for normal application.

PA-161 , diameter 40mm  
PA-161B, diameter 77mm



PA-151

Magnetic Compass, Plastic casing, excellent for magnetic fields tracking. **Model PA-151**, diam. 20mm, **Model PA-153**, diam. 45mm.



PA-153

**Plotting Compass, Model PA-161A**, with marked, aluminium case, diam. 15mm approx.



PA-162

**Magnetic Compass with Lock, Model PA-162**, a magnetic compass in aluminum case, diam. 42 mm, with a glass top, a lock to hold the pointer stationary, and hinged cover.



PA-162A

**Pocket Compass with Lock, Model PA-162A**, a format compass in aluminum case, 42mm diameter, with a glass top, a lock to hold the pointer stationary, marked in degrees.

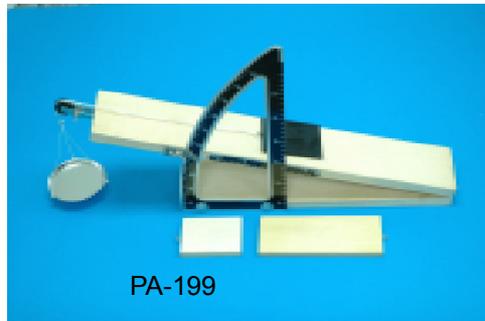


PA-161A



PA-160

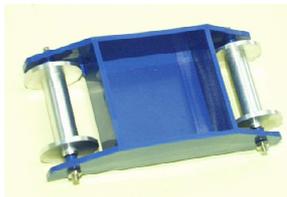
**Lensatic Compass, Model PA-160**, liquid filled compass, diam. 56 mm, with luminous “N” “S” “E” “W” marking. Metal case with belt hook.



PA-199

**Inclined Plane and friction board, model PA-199**, consists of a plane board hinged at the base at one end with a pulley for the force cord at the other end. A moveable block enables the inclination of the plane to be varied. Reversible friction slider and metal plate.

**Hall’s Carriage, Model PA-200**, a high impact plastic body with aluminium wheels and axles is mounted on steel cone bearings for low friction. A small hole near the top end allows a string to be attached. Overall 14 cm. approx.



PA-200



PA-206

**Newton Color Disc, model PA-206**, for demonstrating that white light may be composed from all the spectral colors by rotation of multi-colored disc. Comprising a multi-colored disc. 230mm diameter, mounted on metal stand and driven by belt with the help of driving wheel, fitted with a handle, individually packed.



PA-210

**Ball and Ring Apparatus, Model PA-210**, an apparatus for demonstrating thermal expansion, combined with ring and ball, 25mm diam. mounted on separate handles, 250mm in length.



PA-205

**Magnetic Needle on Stand, Model PA-205**, ideal for demonstrating the operation of a compass and the study of magnetic fields. A magnetic pointer rides on a brass and nylon bearing. The support is non-magnetic. The needle is 145mm in length with North pole marked in red and the south pole in white.



PA-217

**Resonance Tuning Forks with hammer, Model PA-217**, a pair of high quality steel forks (frequency 440 Hz), mounted on resonant cases and tuned in unison so that either fork will resound to vibration set up in the other.



PA-218-1 to PA-218-8

**Tuning Fork, plain shank, Model PA-218-1 to PA-218-8**, made by chrome plated steel, suitable for school, university and laboratory use, marks with frequency, C(256Hz), D(288Hz), E(320Hz), F(341.3Hz), G(384Hz), A(426.6Hz), B(480Hz), C(512Hz)