

APPARATUS PANEL BOARDS

Each panel is 3/4" x 10-1/16" x 43-5/16", constructed of veneer core plywood with twilight high pressure plastic laminate on both faces and edged with black 3mm PVC. Panels are designed to have physical science equipment mounted on them for quick set up and tear down.

#24221 STATIC AND CURRENT ELECTRICITY panel includes electric ball, Genecon generator, circuit demonstrator, electric bell, voltmeter, electric motor and propellers, lead wires with clips, pith balls and graphite balls, static friction pads and balloons, and static generator wands.

#24222 SOUND EFFECTS panel includes tuning thumb screw, (6) tuning forks, Slinky, standing wave demonstrator, music box, flute, pan flute, and steel string instrument with sound box.

#24229 LEVER, WHEEL, & PULLY SYSTEMS panel includes metric (Newtons) spring scales, lever with adjustable fulcrum, (2) double pulleys, (2) triple pulleys, (4) single pulleys, (2) masses, spring, and motion demonstrator, wheel and axle demonstrator with meter stick.

#24230 MAGNETISM panel includes projection compass, student wire, earth magnetic field demonstrator, magnetic needles, (24) student compasses, magnetism electricity induction kit, eddy current demonstrator, electromagnet, voltmeter, (30) student ring magnets, horseshoe magnet, magnetic marbles, natural loadstone magnet, and (2) bar magnets.

#24235 HEAT ENERGY panel includes Hero's engine, radiometer, fire syringe, bi-metallic strip, ball and ring apparatus, heat conductive apparatus, post card thermometer, liquid crystal demonstrator, convection current paper, (15) student thermometers and heat solution demonstrator.

#24240 INCLINED PLANE AND FRICTION panel includes friction block demonstrator kit, (12) small weights, weight tray, (2) jack screws, Hall's carriage cart, inclined plane with pulley, Lev-O-Gauge I, meter stick, and 2.5N spring scale.

#24244 ENERGY, FORCES, AND MOTION panel includes Newton's Second Law of Motion demonstrator, pendulum apparatus, energy transfer balls, (2) happy and unhappy balls, (7) steel balls for collision track, pendulum set (five 1" drilled diameter balls and one 1" undrilled glass ball), rod connector, air puck set, and collision track with meter stick.

#24280 LIGHT, LENSES, AND MIRRORS panel includes meter stick, light source, lens holder, marker, object, (15) student magnifying glasses, (15) student Fresnel lenses, lens kit, convex mirror, concave mirror, curved Lucite rod, and kaleidoscope.

#24281 LIGHT ENERGY & COLOR panel includes student prism, set of color filters, (15) polarizing filters, laser pen, spectroscope, (15) student rainbow glasses, meter stick, (2) light sources, photometer demonstrator, and wave spring demonstrator.

#24220 BLANK PANEL for the purpose of building your own apparatus design.

Note: Each panel board furnished with a label identifying the board number and discipline. Labels for different panel disciplines are signified by color: red-heat, yellow-light, blue-electricity, and green-mechanics.

In addition to the above panels, (1) hands-on science apparatus panels teacher guidebook and student lessons for basic physical science concepts shall be included. Also, included is a one day in-service training program provided by an **Educational Consultant** qualified, trained, and experienced in teaching hands-on physical science activities.

OPTIONAL STORAGE UNITS FOR APPARATUS PANEL BOARDS

1. #22900A – Single-sided portable unit with metal uprights on casters. Unit designed to house Option A apparatus learning panels (see catalog for panels available in Option A.)
2. #22900B – Single-sided portable unit with metal uprights on casters. Unit designed to house Option B apparatus learning panels (see catalog for panels available in Option B.)
3. #22950 – Double-sided portable unit with metal uprights on casters. Unit designed to house both Option A and Option B apparatus learning panels, five on each side.
4. #22975A and #22975B – Wall-mounted apparatus panel system that mounts to the wall. Storage case is mounted on two E.C. wall support metal rails and each holds five apparatus panel learning boards, Option A and Option B.
5. #T478222-744 – Apparatus panel board storage case (47" x 22" x 82"). Locking case holds both Option A and Option B apparatus boards or forty-four (44) blank panels and furnished with three tote trays for storing additional loose apparatus.