

Mechanics



Petrol engine model

This 4-stroke petrol engine model clearly demonstrates the operating principle of internal combustion engines, designed based on a typical air-cooled engine structure. The valve action is visibly driven by cams connected to the main crankshaft through a rear gear train. It features a cross-sectional carburetor display and a simulated spark plug with a small lamp to mark the ignition point. Mounted on a base with screw terminals for 3V battery connection.

Size: 17 x 12 x 28 cm.

Plant phototaxis bucket

This kit includes a white transparent container and a black opaque container for plant phototropism experiments. When plants are cultivated in the transparent container, light irradiates from all directions, leading to disordered growth; when grown in the black opaque container with the top cover open, plants grow vertically upward.

It intuitively verifies the phototropism of plants, serving as an ideal visual teaching aid for botanical experiments.

Size: 16×16×15cm





Model Of Water Pump

This pump demonstration model consists of two types of pumps: a pressure pump and a suction pump. It intuitively illustrates the structural composition and working principle of pumps, making it an excellent teaching tool for hydraulics and mechanical principle courses. Size: 30×15×18cm.

Hydraulic transmission model

This instrument adopts a hydraulic jack structure with a fully transparent design. The working process of the piston, hydraulic pump and check valve in the hydraulic cylinder can be clearly observed. It truly demonstrates the working principle of the hydraulic transmission system, allowing users to intuitively view the complete operation of the hydraulic mechanism, making it an ideal teaching aid for hydraulic principle demonstrations.



Human conducting experiment

This teaching aid is designed for primary school science courses. It helps students explore the mysteries of the human body and conduct experiments to verify that the human body is a conductor. It effectively stimulates students' interest in scientific exploration and ensures smooth, intuitive experimental operations, serving as an ideal tool for elementary science teaching.