

Product Code . ILS-K-11658

Air Puck Physics Kit



Description

Indian Lab Suppliers Demonstrate Newton's Laws, energy, and momentum with the amazing new Air Puck. It's perfectly balanced and glides on a cushion of air for nearly frictionless motion across any smooth surface. Sturdy bumpers will survive collisions with walls, shoes, or other Air Pucks. Each puck is powered by 4 AA batteries, not included. One set of 4 alkaline batteries will provide power for approximately 4 ten minute labs. Puck is 7.5" diameter x 2.5" tall.

The Air Puck Physics Kit Can Be Used to Demonstrate:

Newton's First Law (Law of Inertia): Demonstrate how the puck glides smoothly in a straight line until acted on by an outside force.

Centripetal Motion: Attach a long elastic band to the puck and loop the free end around a round table leg. Push the puck in a circle and observe the effect of increasing speed on the stretch in the elastic band.

Friction vs. Frictionless: Compare the Air Puck's motion to that of a block of wood or sliding rubber tire. Discuss the effects of friction on different surfaces.




Collisions and Conservation of Momentum and Energy: Use two Air Pucks to investigate the behavior of objects in collisions.

The below table indicates expected RPM speed, current, voltage, and power when placing the WindPitch in constant wind speed of 10mph when connected to load of 50 Ohms. This level of resistance may be applied using common potentiometer or Horizon's variable resistor module.

Blade Type	No. of Blade	Wind Speed (mph)	Load (Ohm)	Output Voltage (V)	Output Current (mA)	Output Power (W)	Rotor (RPM)
Blade A	3	10	50	1.15	28	0.03	400
Blade B	3	10	50	1.35	30	0.04	490
Blade C	3	10	50	2.50	50	0.125	705

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