

# Vernier Projectile Stop

(Order Code: PS-VPL)

The Projectile Stop is a heavy, foam-coated metal part designed to capture the projectiles used in the Go Direct Vernier Projectile Launcher (GDX-PL) and the Vernier Projectile Launcher (VPL). The hinged back can be folded down for storage or raised to capture the projectile. Energy absorbing foam generally keeps the projectile from bouncing out of the Stop.

The Projectile Stop is intended to be placed just past the expected impact point of the projectile. The impact point can either be calculated in advance from the projectile speed and launch angle, or it can be determined experimentally. Most users will fire multiple trials for a given speed, and the Stop will then keep the projectiles from rolling out of sight.

Common arrangements include the following:

- When the Stop is used alone, place it 10–20 cm behind the expected impact point. The ball will bounce once and be caught by the back of the Stop.
- When the Stop is used with the waxed tape for marking landing positions, place the tape on a hard surface and the Stop about 10–20 cm behind the expected impact point.
- When the Stop is used with the Time of Flight pad (TOF-VPL), place the Stop just behind the Pad. The projectile will bounce once on the Pad and be captured by the Stop.

The Stop can be used with any experiments performed with the Go Direct Projectile Launcher or the Vernier Projectile Launcher.

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