Compound pendulum →

A compound pendulum is any rigid body capable of oscillating freely about a horizontal axis passing through it under the influence of gravity. It's

→ Structure → Rigid body, extended mass.

→ Mass distribution → Discribed over the Volume

→ Formula → $2\pi\sqrt{\frac{I}{mgl}}$

→ precision → Easier to measure accurately.

Compound pendulum's common applications —

(a) Determining 'g' → A reversible (Kater's) pendulum is used for high precision measurment of gravitational acceleration.

(b) Moment of inertia → Used to find the moment of inertia of irregular objects.

(c) Clocks → Used to regulate the moment in mechenical clocks.