



## Mechanical kit with starter, sensor and multi-chronometer

EQ284

### Function

Study of particle mechanics, particle kinematics, motion in two dimensions, particle dynamics, Newton's laws, equilibrium, work and energy, mechanical advantage; conservation principles, conservation of mechanical energy, conservation of momentum; elastic collision; mechanics of rigid bodies, rotation of rigid bodies, rotational kinematics, rotational dynamics, moment of inertia and conservation of momentum, simple pendulum; fluid mechanics, hydrostatics, Archimedes' principle, determination of density of solids; wave mechanics, oscillatory motion, simple harmonic motion, damped harmonic motion; mechanical waves, longitudinal mechanical waves, amplitude, beat, wavelength, frequency, period, etc. energy discussions, etc.

- It works in conjunction with the digital multi-stopwatch with scrolling as well as with the CipepeLab data acquisition interfaces.

### Knowledge areas

Physics

### Level

Graduation - Technical education - High school

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