



## Mechanics kit - Arete

EQ005

### Function

Study of mechanics (pendulum, springs, thrust, pulleys, movement quantity; moment of inertia, collisions, horizontal launch, work and energy, SHM, dynamics of particle and rigid body, etc.

### Knowledge areas

Physics

### Key Experiments

- » The mechanical advantage of the compound pulley - 1032.030A
- » The experimental determination of the mechanical advantage of the parallel block and tackle system - 1032.031

- » The simple pendulum - 1032.013
- » Hooke's law, the elastic constant and the restoring force in a coil spring - 1032.052A
- » The elastic constant in a combination of coil springs in series - 1032.053
- » The elastic constant in a combination of coil springs in parallel - 1032.053A
- » The dynamic determination of elastic constant in a mass and spring oscillator - 1032.012A
- » Archimedes' principle - 1042.032A
- » The reach of a projectile horizontal launch - 1032.064\_1
- » The amount of linear movement (horizontally) of a sphere in a horizontal launch - 1032.076\_1

[cidedigital.com.br](http://cidedigital.com.br) ◦ [cidepe@cidepe.com.br](mailto:cidepe@cidepe.com.br)

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Av. Victor Barreto, 592 - CEP 92010-000 - Canoas - RS - Brasil

