

Rocket Propulsion

CO₂ Rotation Apparatus

Estimated Time for Activity: ~5 minutes

Optional Objectives:

The students will:

- Gain insight into the conservation of momentum.
- Gain insight into rotational motion.

Materials:

- Rotational apparatus
- CO₂ cartridge
- Cartridge piercer

Optional Vocabulary:

- Conservation of momentum
- Rotational motion

Procedures:

- Place CO₂ cartridge into apparatus.
- Puncture CO₂.
- Observe the arm move around.

Optional Post-Activity Question(s):

- What made the arm start to move?
- Which direction is the centripetal force acting?