



Material:

Item-no.	Qty.	Description
DM630-1S	1	Balance artist

Purpose

Demonstration of the different types of equilibrium.

Experiment 1

Push the barrel weight down to the hemisphere.

The centre of gravity of the overall system lies very deep, the body swings back into a stable equilibrium position with every deflection

Experiment 2

Move the barrel weight to the end opposite the hemisphere.

The test body can be balanced, but falls over when deflected and remains there - unstable balance.

Experiment 3

The barrel weight is carefully placed so that there is an indifferent balance, the test specimen remains at rest in any position. Where has to be its centre of gravity?

Application

Rocking chair - How big does the radius need to be? How do you make the chair rock?