

VIRTUAL SCIENCE Exhibition
promotion of toys as a tool for education.

Theme *TECHNOLOGY FOR SCIENCE* .

Title. : **NEWTON'S CRADLE MODEL** .

INTRODUCTION OF CRADLE MODEL :

Newton cradle is a device that demonstrates conservation of momentum and energy using a series of swinging spheres. When one sphere is lifted and released, it strikes the stationary spheres, transmitting a force through the stationary spheres that pushes the last sphere upward. The last sphere swinging sphere, repeating the effect in the opposite direction, the device is named is **NEWTON'S Pendulum , Newton's balls and executive ball clicker.**

A typical Newton's cradle consists of a series of identically sized metal balls suspended touching each other at rest.

WORK OF NEWTON'S CRADLE MODEL :

Whether you know it as Newton's cradle or the Executive Ball Clicker, chances are you have seen the educational desk toy that seem to defy explanation. The device consists of a row of five metal or glass balls positioned to just barely touch one another suspended from a frame by thin wires.

The device can be explained with some of the **(Fundamental principles of physics.)** And mechanism as theorized by sir Isaac Newton, Rene Descartes and others.

Newton's cradle aptly demonstrates the principle of the conservation of momentum (mass time speed). This principle state that when two objects collide, the total momentum of the object before collision is equal to the total momentum of the objects after the collision.

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