Forces and motion

Posted by sat on Mon, 2014-03-17 14:34

These online interactives demonstrate the interaction of forces.

The resources are a number of downloadable interactive simulations that help explain the various forces acting on moving objects in terms of the mathematics involved.

Explore the forces at work when you try to push different objects along a flat surface. Create an applied force and see the resulting friction force and total force acting on the object.

See charts that show the forces, position, velocity, and acceleration v time.

View a free-body diagram of all the forces, including gravitational and normal forces.

Sample learning goals and tips for teachers are given on the website along with many downloadable documents with teaching ideas.

The second link is to a worksheet on the site that guides students through an investigation of Newton's second law and is particularly relevant to ACSSU229.

Australian Curriculum v9 Codes: AC9S10U05 (Year 10)

Tags:
normal force
acceleration
velocity
net force
force
Newton's laws
External Link:
Forces and motion interactive
Discovering Newton's Second Law
Source Category:
Educational
Forces and motion

Average: 4 (2 votes)

Publication Date:
October, 2006
Newton's second law

Source URL:https://assist.asta.edu.au/resource/496/forces-and-motion