Masses and springs

Posted by sat on Mon, 2014-03-17 14:51

This online resource looks at the effect on springs of falling masses.

The resource is a simulator that allows students to study the effect on springs of falling masses under various conditions.

Different masses can be added to up to 3 springs and their stiffness and damping can be adjusted.

The springs are extended and released and their motion can be analysed via energy graphs which show kinetic, potential, thermal and total energy.

Sample learning goals, along with many downloadable documents of teaching ideas, are also available on the site and link from this activity.

Australian Curriculum v9 Codes: AC9S8U05 (Year 8), AC9S9U05 (Year 9)

Tags:
kinetic energy
gravitational potential energy
elastic potential energy
total energy
energy transfer
spring potential energy
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Conservation of energy