

Energy

Using Slow motion video to visualise energy conversion of a bouncing ball

Activity

Using the Slo-Mo function of Camera app to capture a rubber ball bouncing from a fall from a height. Screen capture the compression of ball, change in its shape and the bounce up. And in each step explain the energy conversion and its results.

Objectives


Students will be able to better visualise the conversions and explain their answers in the proper stages to completion.

Extensions

Students can experiment with releasing from different height to measure bounce height or ball of different materials for comparison.

Have a go



- 1 Open Camera  and select Slo-Mo.
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- 2 Set up the iPad on a tripod or on a stable mount.
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- 3 Record the reaction of a rubber ball dropped from a height as it bounces off a surface.
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- 4 Repeat if necessary to get the proper angle.
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- 5 Capture moments when ball is compressed and when it is not longer when it bounces up. Record the explanations for it.
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- 6 Extensions: Repeat drops from different height, or use balls of different materials, or even drops on different surfaces for different effects.

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