

Work and Energy

# Concept Review

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## Power

A man accidentally knocks a flowerpot off a high window ledge. The flowerpot drops straight down under the influence of gravity.

1. What is the velocity of the flowerpot as it falls?

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2. What is the distance the flowerpot falls?

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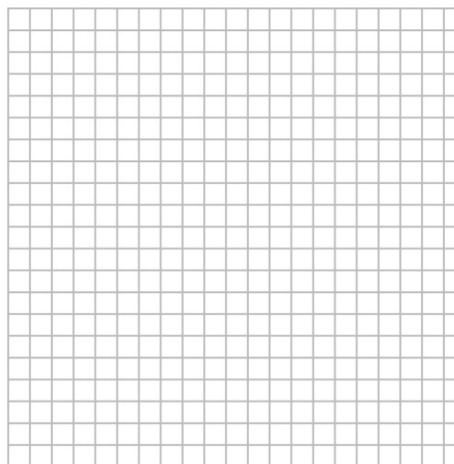
3. What is the force acting on the flowerpot as it falls?

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4. What is the work done on the flowerpot as it falls?

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5. Assume the flowerpot has a mass of 5.00 kg and drops a total distance of 15.0 m. In the space provided, graph the work done on the flowerpot as a function of time.



6. The flowerpot described in item 5 falls for a total of 1.75 s. What is the power delivered by the flowerpot in this interval?

$(g = 9.81 \text{ m/s}^2)$

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