

Chapter 10 – Stretching and Compressing Objects

Learning Grid

Stretching and Compressing Objects	Questions	Answers
	Define an elastic material, and give two examples.	
	Define a plastic material, and give two examples.	
	Define Hooke's Law - include a sentence definition and equation with associated units.	
	Draw a labelled graph of force against extension for an object that obeys Hooke's Law	

Stretching and Compressing Objects	Questions	Answers
	What is the spring constant of a spring? What does it represent? How is it determined?	
	State and explain two applications of Hooke's Law.	
	Draw a force extension graph showing the work done stretching or compressing a spring. Label the graph and thus derive the equation for elastic potential energy.	