

Name		Partner		Date				
Spring ID Number: A		Spring constant, from last week ( $k$ ):						
Measurements for characterizing mass hangers			Rough sketch of position vs time for oscillating mass					
Disk	Mass	Radius						
Fit parameters for underdamped oscillator model								
Disk	$y_0$	$A$	$\gamma$	$\omega$	$\phi$			
Damping coefficient dependence on disk size								
Disk	$b$	$r$	Area					
Describe, using your graph results, specifically how the damping coefficient depends on the disk size.								

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Describe (in general terms) how the angular frequency $\omega$ varies (or doesn't) with the amount of damping.		
Describe whether your simulation displays the same behavior for different size disks that you have observed experimentally.		
<p>Attachments:</p> <ul style="list-style-type: none"><li><input type="checkbox"/> Annotated graphs showing measured position vs time for damped oscillator, with best fit.</li><li><input type="checkbox"/> Annotated graph showing simulated position vs time for damped oscillator.</li></ul>		