Remember to multiply by mail Name Period Date	ass (kg) by 10 to ge	et Newtons (N)	University of Boulder	Colorado
Google PhET Balancing Act html5		Balar	ncing Ac	ct
All Images Videos News More ▼ Search About 3,360 results (0.32 seconds) Balancing Act (HTML5) - PhET https://phet.colorado.edu//balancing.act ▼ University Balancing Act (HTML5) - Balancing Act Intro Balance Lab Game, Balance	of Colorado Boulder ។ alance Lab Game m	Intro	Balance Lab	Game
Set-up: Choose "Introduction" Check all of the "show" boxes. → Add supports. Choose Choose Choose Rulers	5 kg 10 kg			Show W Mass Labels W Forces from Object W Level Position O None © Rulers Marks
	Ś	2 175 15 1.25 1 0.75 0.5 0.5 Meters	25 0.5 0.75 1 1.25 1.5 1.75 2 Meters	5 kg 10 kg

Part 1 Directions: Add masses to each side of the fulcrum. Remove

supports and see if you are balanced. Draw 4 different ways to balance the masses. At least 2 of your pictures must use both the 10kg (100N) mass and one or two 5 kg (50N) masses. Use 1A and 1B as examples of bad (1A \circledast) and good (1B ©). For each side of the fulcrum, find the N*m as shown in 1A, 1B.



Part 1 Question: What do you notice about the N*m for your balanced masses?

Set-up: Choo Check all of Add suppor	Remember to multiply by mass (kg) by 1 Name Period Date Date the "show" boxes. → Yeres from Objects tts.	LO to get Newtons (N) Balancing Intro	University of Colorado Boulder Act		
Choose Rulers Balance Lab Your mission is to find the masses of ALL of the Mystery objects. Figure out the torque (N*m) for each mystery object and divide by the distance (m). Draw the balanced pictures, below.					
Mystery	Balancing pictures	What does each mystery object weigh? Show work here for each side			
A	2 1.75 1.5 1.25 1 0.75 0.5 0.25 Meters	= N	N		
B	2 1.75 1.5 1.25 1 0.75 0.5 0.25 Meters	= N	N		
C	2 1.75 1.5 1.25 1 0.75 0.5 0.29 Meters	= N	N		
	2 1.75 1.5 1.25 1 0.75 0.5 0.25 Meters	= N	N		
	2 1.75 1.5 1.25 1 0.75 0.5 0.25 Meters	= N	N		
F	2 1.75 1.5 1.25 1 0.75 0.5 0.29 Meters	=			
G	2 1.75 1.5 1.25 1 0.75 0.5 0.75 1 1.25 1.5 1.75 2 Meters				
H	2 1.75 1.5 1.25 1 0.75 0.5 0.25 Meters	: =	N		

https://phet.colorado.edu/sims/html/balancing-act/latest/balancing-act_en.html



Post-lab	Questions:

Why do you think the simulation is called "Balancing Act"?

What are the two main factors in the weight on each side of the fulcrum?

What happens when the sides are not balanced?

Going further:

What real-life application(s) can you think of that can (and does) use the principles of this lab?

What are two occupations that this knowledge could be useful to have (outside of physics teacher...)?

AA31 Labs