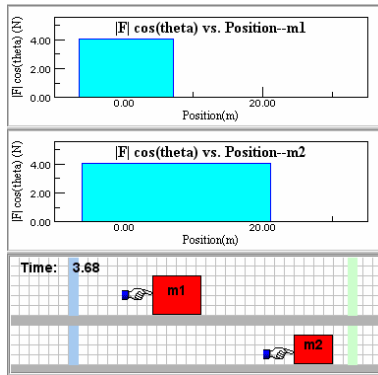


Worksheets for Exploration 6.2: The Two-Block Push



Two blocks are pushed by identical forces (**position is given in meters and time is given in seconds**), each block starting at rest at the first vertical rectangle (start). The top block is twice the mass of the bottom block, $m_1 = 2m_2$. [Restart](#). The graphs and tables are initially blank. [Animation without Graphs and Tables](#).

- a. Which object has the greater kinetic energy when it reaches the second vertical rectangle (finish)? Why? (Use the animation without graphs).
 - i. Consider the definition of work.
 - ii. Is there a measurement you can make to test your answer?
 - iii. Make the appropriate measurements to predict KE_{25m}/KE_{125m} .

