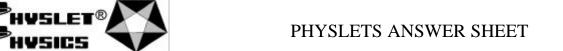
Class _____



Name _____

Forces / Set 2 / Animation 4

<show all="" calculations.="" complete="" explanations="" include="" on="" proper="" require="" sentences.="" units.="" work=""></show>
1) Use kinematics to find the acceleration of the green block.
2) Draw and label a free body diagram showing all forces acting on the green block.
3) Given a push of $F = 50.0$ N on the top block, calculate the coefficient of kinetic friction between the top and bottom block.
4) Use kinematics to find the acceleration of the red block.
5) Draw and label a free body diagram showing all forces acting on the red block.
6) Calculate the magnitude and direction of the force that accelerates the red block.
7) Compare this force to the force of friction on the green block.