## PHYS221 Pre-lab- Experiment # 6 Coefficient of Friction

NAME
1. What is the objective of this experiment? 1 pt.
2. What is the definition of the coefficient of friction? 2 pts.
3. Define the angle of repose. 1 pt.
4. Draw a force diagram for a block being pulled with <i>constant velocity</i> up an incline at angle θ. Be sure and draw to scale and include friction. 3 pts.
<ol> <li>Calculate the force required to pull at constant velocity a block of mass 150g up a 15 degree incline. Coefficient of friction is 0.2. Show all work. 3 pts.</li> </ol>

## PHYS221 Pre-lab- Experiment # 6 Coefficient of Friction