

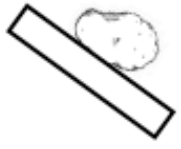

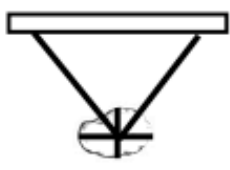
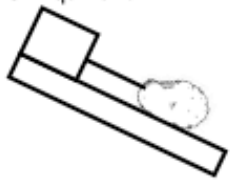


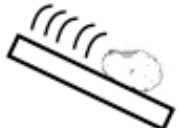
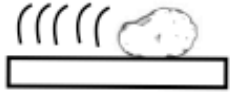


Name: _____	Physics–HW# _____–Free Body Diagrams
Date: _____ Per.: _____	My score = <input type="text"/>

Forces:
 F_w = weight of the object (or F_g)
 F_t = tension
 F_n = normal reaction force
 F_f = friction

Directions: In each case the rock is acted on by one or more forces. You can ignore friction, except where noted. Draw accurate free-body diagrams showing all forces acting on the rock. Use a ruler to make your work neat.

1. Equilibrium 	1. FBD:	2. Equilibrium 	2. FBD:
3. Equilibrium (Friction prevents sliding) 	3. FBD:	4. Equilibrium 	4. FBD:
5. Equilibrium 	5. FBD:	6. Equilibrium 	6. FBD:
7. Rock is sliding on a frictionless surface. 	7. FBD:	8. Rock is falling. No friction. 	8. FBD:
9. Rock is sliding on frictionless incline. 	9. FBD:	10. Rock is slowing down because of friction. 	10. FBD: