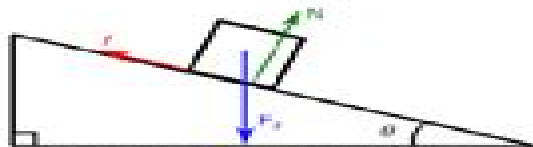


## Newton's Laws cont.

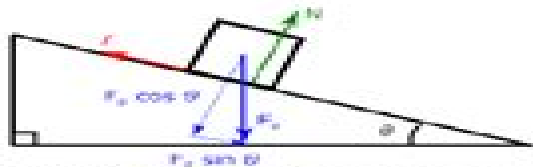
## Free Body Diagrams (cont.)

## Objects on a Ramp

Another type of problem is an object on a ramp or tilted table. The normal force is still perpendicular to the table, but gravity is always pointing straight down.

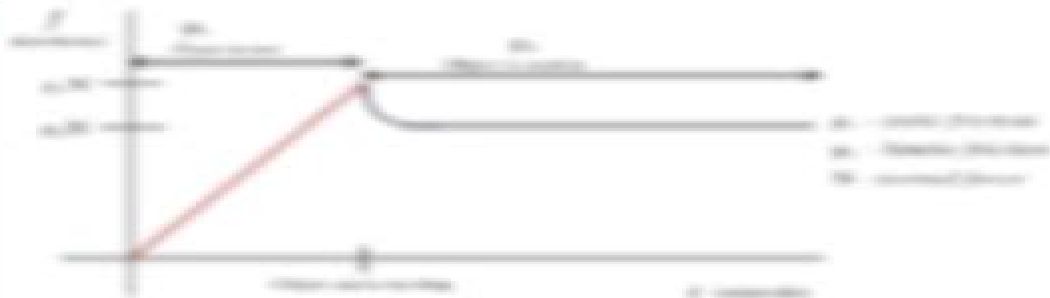


Gravity can be decomposed into its x- and y-components (relative to the ramp), as shown below. Because of Newton's third law, we know that  $N = mg \cos \theta$ .



Friction force is always in the opposite direction of motion. In the ramp example, gravity pulls the object down the ramp, so friction acts in the opposite direction (up the ramp), impeding the object's motion.

- There are two friction coefficients: the coefficient of static friction ( $\mu_s$ ) and the coefficient of kinetic friction ( $\mu_k$ ). The static coefficient is always greater than the kinetic coefficient, which is why it takes less force to keep an object sliding along the ground than it does to make it start moving. The graph below shows the magnitude of the friction force over time while resisting an external force.

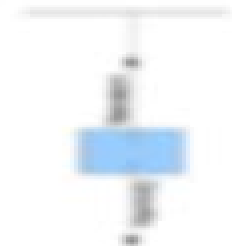


- $\mu_s mg$  is the static friction the block needs to overcome before it can move.
- If the block is not moving, we can calculate the magnitude of static friction.
- If the block is moving, we can calculate the magnitude of kinetic friction.

## Springs

If an object is attached to a spring (or similar spring-like object), the force provided by the spring is called **spring**. This could be an object hanging from a spring or an object being pulled by a spring.

- Usually the spring is assumed to have no mass. This means that we can consider the spring with perfectly elastic energy from one end of the spring to the other.
- The mass itself is a separate thing, not attached to the spring. This means that every point along the spring has the same mass and velocity (linear velocity).
- If the spring is rigid, we can decompose the tension force into components.



# Newton's Laws Study Guide Answers

**Lei Huang**



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