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# The Ramp And Friction Phet Simulation Lab

**elementary 1 - friction & ramps - ite** - friction the challenge determine the angle and material covering on a ramp that results in a vehicle's moving the fastest. young kids learn by exploring, observing, and figuring out the way things work by experimenting, and exploring ramps and friction encourages this. **coefficient of friction - tcna** - the potential for a person to slip, the german ramp determines coefficient of friction and the potential for slip with a person walking on a ramp as the surface becomes increasingly steep. lubricants such as soapy water and oil can be added to simulate contaminated conditions. the bot-3000 and the gmg devices correlate more closely with the ramp **dynamics - pulleys, ramps, and friction** - somewhat down the ramp and somewhat into the track. for this reason we need to consider forces both parallel to the ramp and perpendicular to it. the parallel forces determine the acceleration of the cart along the track, while the perpendicular forces determine the amount of friction between the cart and the track. **determining the coefficient of friction for various tires ...** - determining the coefficient of friction for various tires on a ramp. an experiment involving the forces on various polymers. background information: tire companies invest a lot of money researching different properties of rubbers to make them ideal for making tires. **friction, work, and the inclined plane** - utc physics 1030l: friction, work, and the inclined plane 40 the magnitude of the frictional force,  $f_f$ , on an object, can also be described by:  $f_f = \mu n$  (eq. 3) where  $\mu$  is the coefficient of friction. if the block is at rest, we say that the force of static friction,  $f_s$  is acting to counterbalance the weight component in the x-direction, and the coefficient of friction is that **inclined planes block on a ramp, example** - block on a ramp, example • axes are rotated as usual on an incline • the direction of impending motion would be down the plane • friction acts up the plane - opposes the motion • apply newton's laws and solve equations friction/inclined plane example a 4000 kg truck is parked on a 15° slope.

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