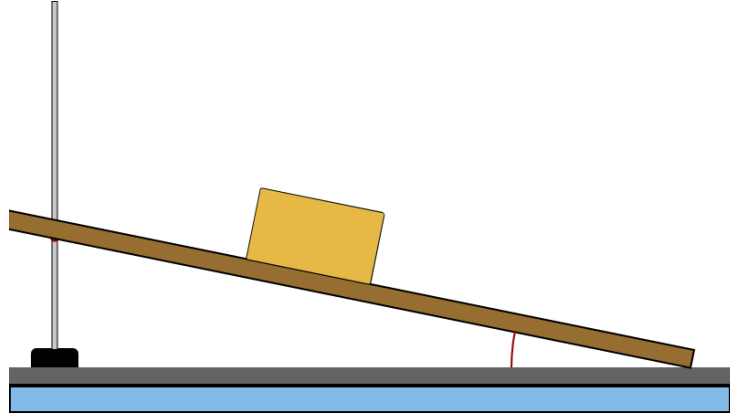
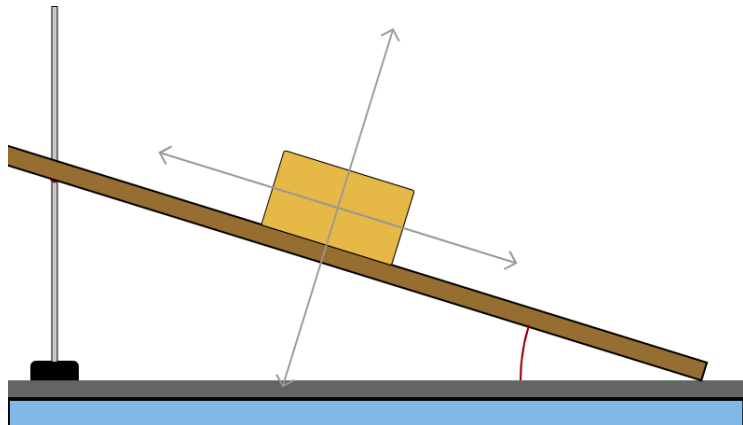


Acceleration on Incline

Step 1: The block is on an incline with friction. For your problem, fill in the mass, the angle and the coefficient of friction in the picture below.



Step 2: Calculate the force gravity on the block and then figure out the F_{gx} and the F_{gy} when you rotate your axes to match the angle of the incline. Then calculate the F_n and F_f . Put all these forces into the picture shown below. Show all your work for these calculations



Step 3: Now use Newton's laws to find the acceleration of the block as it moves down the incline. Show all your work for this calculation. Then check your work by putting the answers in the program.