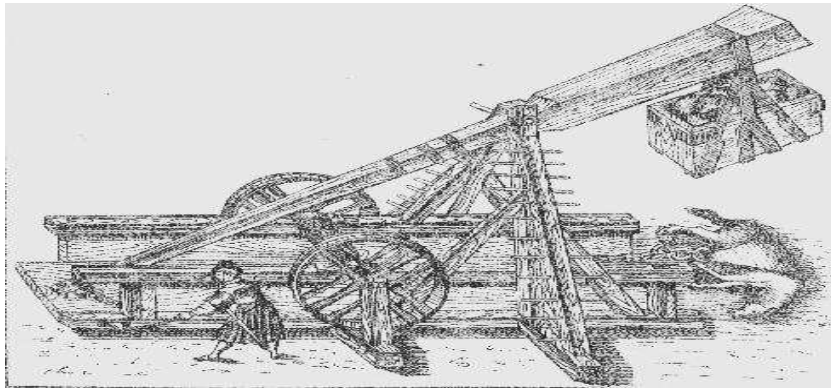


Crazy Catapult Contest



You have been working problems that relate time, and distance to velocity and acceleration.. Using the 10-1x2x8' lumber, fasteners, assorted hardware, provided, you must assemble a working devise that hurls a tennis ball. Only mechanical energy can be used, no chemical or compressed gas. Complete the tasks listed in the rubric below.

Working catapult	10	
Labeled sketch set-up (on back)	3	
Measurement of distance	2	
Calculation for initial velocity	5	
Calculations for acceleration due to catapult. (Think. Over what distance does the catapult apply a force.)	5	
Calculation of force of catapult. ($f=ma$)	5	
Points for Closest to target	5-4-3-2-1	
Points for the Farthest	5-4-3-2-1	