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With gravity, a "projectile" <u>fall below its inertial path.</u> Gravity acts downward to cause a downwards acceleration. There are not horizontal forces needed to maintain the cannonball's motion. (Remember the concept of inertia.)



1.) range =	= the h	orizo	ontal	dis	tan	ce	а	
projectile	travels	5						

2.) trajectory = the shape of the projectile's path of motion
ex: "parabolic trajectory" – moves in a parabola shape









Once the projectile is launched, there is NO FORCE applied to it in the X direction NO FORCE = NO ACCELERATION

NO ACCELERATION = CONSTANT VELOCITY

CONSTANT VELOCITY: $v_{xi} = v_{xf} = v_x$

THE ONLY KINEMATICS FORMULA YOU CAN USE IS...









