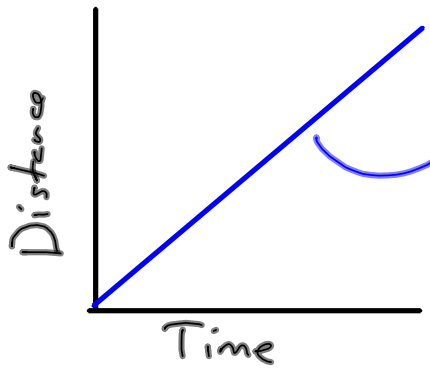
December 02, 2015

Distance vs Time Graphs

for a Constant Velocity

Relationship = Linear



Slope = Velocity

$d = V \cdot t$

$y = m \cdot x$

When time is doubled, distance will be doubled

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Name

Title:

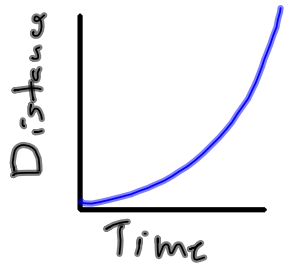
date

period

Wild Guess: It will take 2s, 5s, 3.62s, 4s, 3.7s, 6s, 1.67s, seconds for the ball bearing to roll from the top of the cabnet to the ground on 2 ramps.

Research Question: What is the pattern of motion of objects pulled by gravity?

Hypothesis:



When objects fall, the distance depends on the time in a _____ relationship.

Variables:

Independent: Distance ball rolls on the ramp.

Dependent: Time on the ramp

Control: The ramp:

Angle of the ramp, height of ramp

The ball:

Location + weather

Timer - Jobs must be consistent