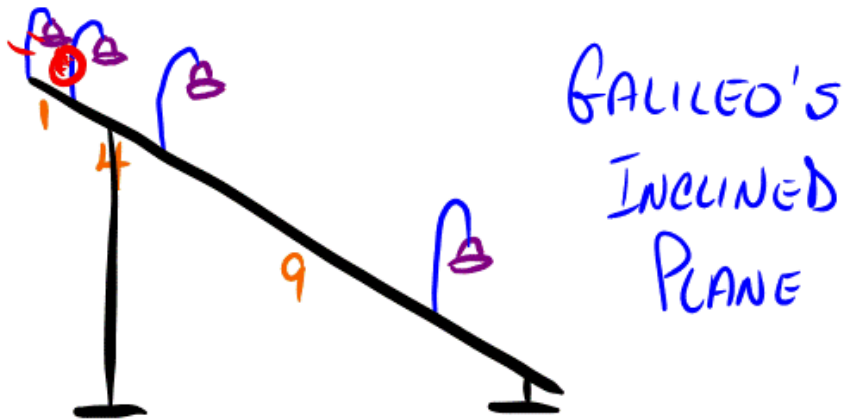


PHYSICS
Linear Motion Notes

- Motion is Relative
 - You move _____ relative to the floor, but 30 km/sec relative to the Sun.
 - If you drive at 60 mph and pass a car going 45 mph, your speed relative to the other car is _____?
 - If you drive at 60 mph and pass a car going 50 mph, your speed relative to the other car is _____ mph?
- Speed = _____
- Velocity is the _____ and the _____ of an object in motion.
 - Does a car on a circular track going 20 mph have a constant velocity?
- Acceleration is the change in velocity over time.
 - Acceleration = change in _____ / _____
 - Remember that *change in velocity* can be a change in _____ or _____.
- Galileo's Inclined Planes
 - Galileo put bells on a track at distances 1, 4, 9, 16. When a ball rolling down the track hit each bell they sounded as if keeping a steady beat. Why?



- Free Fall
 - If an object is falling in a gravitational field, then it is _____ (at about 10 m/sec²).