| **Interactive**  **Notes** | **Name:Dessa Shapiro**  **Date: 3/30/21**  **Class/Period: period 5**  **Topic: imperialism- Korea** |
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| **EQ: How does acceleration relate to other physics and what are the equations ( note on the last sex of notes i accadantally did pages 1-10 so i will do 11-14)** | |
| **Source**  [**Download Cartoon Guide To Physics Ch 1 & 2.pdf**](https://tamdistrict.instructure.com/courses/3453/files/878762/download?download_frd=1) | |
| **Notes on pages 11-14**  **Questions/ Comments**  **Pg 11**  How would you calculate the circles acceleration and does the size of the circle affect anything  If you were riding a bick in a circle would leaning towards the center increase the acceleration  **Pg 12**  Eq: V= d/t d=vt T=v/d  **Pg 13**  What would happen if you used a different unit of time, how would you convert it?  **Pg 14**  Does the surface area or friction of the plank/ board when using the inclined plane affect the balls acceleration | **Details/Answers/Explanation/Analysis**  Ex. of acceleration man drives a car around a circular track at a constant of 20km/h = feeling a force pushing him to outside of the curve this shows that the speed is not changing but the velocity is because the direction is changing as he turns  When object moves in a circle at a constant speed the acceleration is towards the center of the circle    Acceleration is a complicated concept but applies to everything: the speed and direction are always changing    Equation to use **V= d/t**  Constant acceleration a in a period of time how far would you go v=at  Start at 0  then distance traveled is the av. speed times time d=½(a)(t^2)  Falling is another kind of motion  Objects increase speed as they fall - in other words they accelerate  This was tested by using and inclined plane that was used to study rolling/falling balls.  Found that the distance of a balls roll increases with the square of the elapses time giving us  **d=½(a)(t^2)**  **Summary:** Speed, velocity, time, and acceleration are all related and there are different formulas to demonstrate how to find certain values. Velocity and speed are very different in that velocity direction plays a role. And |