

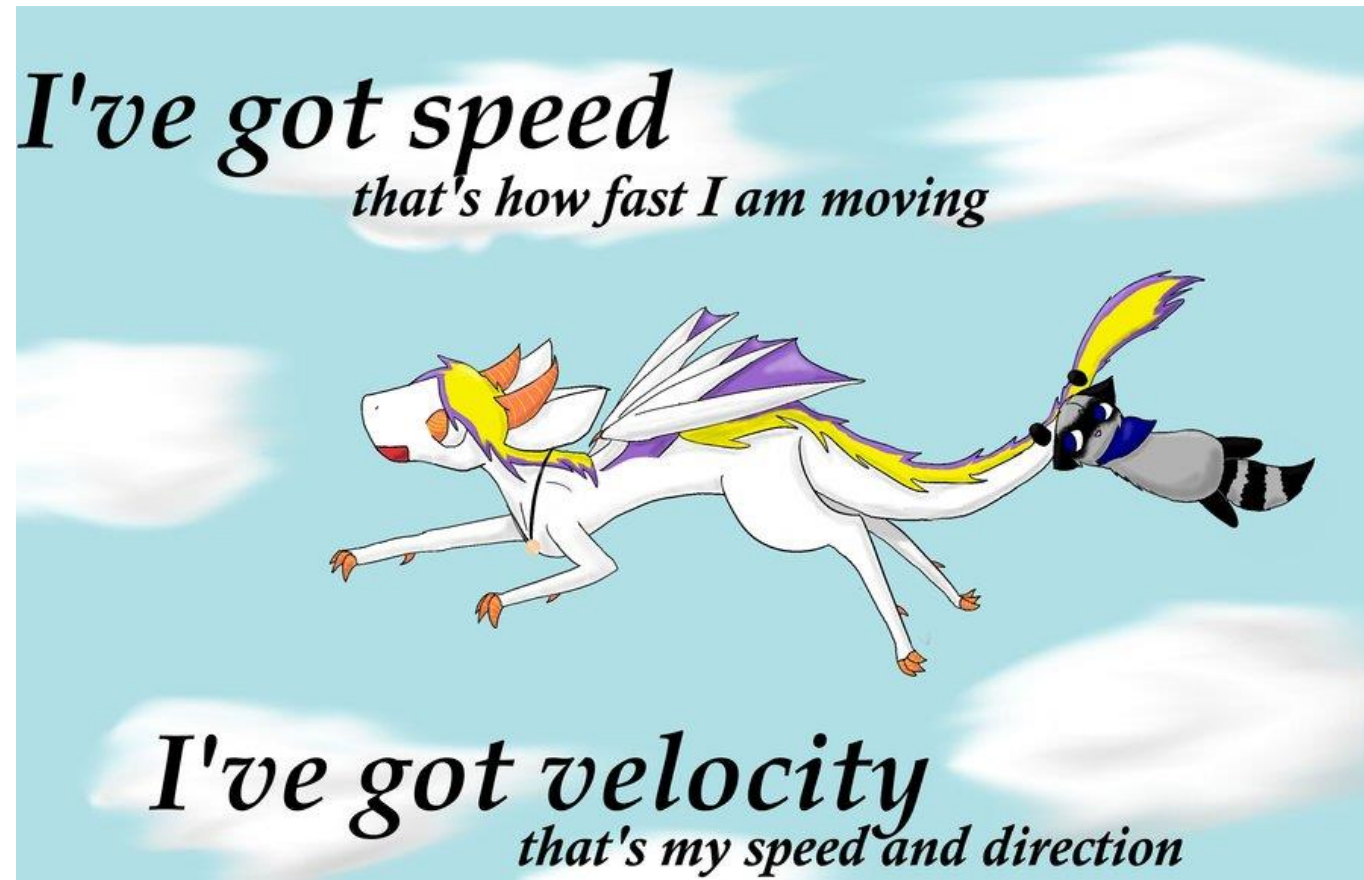
Gen Phys

- Pen/Pencil, notebook, worksheet from yesterday, calculator
- EVERYTHING else in the cubbies in front of your desk.
- No school Monday!!! 😊
- **Chapter 2 TEST!! Tuesday 9/15**

Chapter 2: Uniform Motion

Speed and Velocity Problems-

Show all work!



1. What is the average speed of a cheetah that sprints 100 m in 4 s? How about if it sprints 50 m in 2 s?

2. If a car moves with an average speed of 60 km/hr for an hour, it will travel a distance of 60 km. How far will it travel if it continues this average rate for 4 hrs?

3. A runner makes one lap around a 200 m track in a time of 25.0 s. What was the runner's average speed?

4. Light and radio waves travel through a vacuum in a straight line at a speed of very nearly 3.00×10^8 m/s. How far is light year (the *distance* light travels in a year)?

5. A motorist travels 406 km during a 7.0 hr period. What was the average speed in km/hr and m/s?

6. A bullet is shot from a rifle with a speed of 720 m/s. What time is required for the bullet to strike a target 3240 m away?

7. Light from the sun reaches the earth in 8.3 minutes. The speed of light is 3.0×10^8 m/s. In kilometers, how far is the earth from the sun?