Semester 1

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| **Across****3.** \_\_\_\_\_\_\_\_\_\_\_\_ is a vector quantity related to velocity that can either be positive or negative**4.** The acceleration of an object is directly proportional to the object's mass. The direction of the acceleration is the same as the direction of the direction of the unbalanced force.**6.** The car crossed the bridge at a \_\_\_\_\_ of 20 m/s**9.** Quantities that are fully described by magnitude alone**11.** A scalar quantity that refers to an object's overall change in position**12.** If a cannonball is traveling through the air and the only force acting is gravity it is considered a \_\_\_\_\_\_\_\_\_\_**15.** Used to express a very large number or a small number in a convenient fashion**16.** When a ball attached to a string is swung in the air, it stays on a circular path because of \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_**19.** Quantities that are fully described by both a magnitude and a direction**20.** Factors like your age, diet, sleep schedule, and influences of substances like alcohol can affect your \_\_\_\_\_\_\_\_ \_\_\_\_**21.** A method for analyzing the motion of object using a telegraphic tape machine**22.** According to \_\_\_\_\_\_'s \_\_\_ \_\_\_, for every action there's an equal and opposite reaction | **Down****1.** Represents variations in an object's position over the course of time**2.** In absence of an unbalanced force, an object at rest stays at rest and an object in motion remains in motion with constant speed in a straight-line path**5.** \_\_\_\_\_\_\_\_\_\_\_\_ is a vector quantity related to velocity that can either be positive or negative**7.** The difference in position between a final position and an initial position**8.** Every body that takes up space has \_\_\_\_**10.** A vector quantity that refers to the rate at which an object changes position **13.** Kilograms is a \_\_\_\_ for mass**14.** Represents the range in an object's velocity over the course of time**17.** \_\_\_\_\_ is a push or pull which acts upon an object**18.** A force that resists relative motion between 2 bodies in contact |

   Scientific Notation       Units       Displacement        Speed       Distance       Velocity       Reaction time       Scalar       Vector       Acceleration        Ticker Tape diagram       P-T graph       V-T graph       Force       Mass       Newton's 1st Law       Newton's 2nd Law       Newton's 3rd Law       Friction       Projectile       Centripetal Force       acceleration