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