| Physical Science | PHYSICS VOCABULARY 2014-15 | Period |
|------------------|----------------------------|--------|
| Ms. Toal | | Date |
| KJHS | Name | |

Define the following words and provide an example. These words will be on the unit test.

| | DEFINITION | | | EXAMPLE |
|--|---|------------------------|---------|-----------------------------|
| 1. Motion | An object's change in di another point | stance from | | |
| 2. Reference Point | a stationary object used to compare a moving object to | | | |
| 3. Speed Formula: | the distance an object to divided by the time it to travel | | | |
| 4. Average Speed Formula: | Total distance (add up all d Total time (add up all the t | | | |
| 5. Calculate TIME Time = <u>distance</u> speed | How much time does it take for a ball to travel 120 m with a speed of 20 m/s? | | Units = | = |
| 6. Calculate DISTANCE Distance = (speed)(time) | If a car's speed is 10 m/s, how far will it travel in 7 sec? | | Units = | = |
| 7. Velocity | speed with direction (speed in a given direction) | | Units= | |
| 8. Acceleration | A change in velocity Increasing = acceleration Decreasing = deceleration Changing direction at the sa | nme speed | | |
| 9. Newton | A unit of force (triple u | • | | |
| 10. Inertia | the tendency of an object to resist change in motion | | | |
| Depends on: | | <u> </u> | | 0 11 11 11 |
| 11. Force | Definition: A push or a pull | Same direction: add | | Opposite direction subtract |
| 12. Balanced Force | Does not cause a change in an object's velocity (equal but opposite) | | | |
| 13. Unbalanced Force | Causes a change in an ob | | /. | |

| 14. Tension | An elastic force that stretches or pulls apart | | |
|------------------------------------|---|--|--|
| 15. Compression | An elastic force that squeezes or pushes together | | |
| 16. Buoyant force | Upward force exerted by the fluid on and object, Equal to the weight of water displaced | | |
| 17. Gravity | A force that pulls an objects toward each other Planets: depends on mass of planet | | |
| 18. Weight | Gravitational pull on an object Changes when you go to different planets (mass X gravity) | | |
| 19. Friction | The force that one surface exert on another when the 2 surfaces rub against each other | | |
| 20.Newton's 1 st Law | An object at rest will remain at rest. An object in motion will remain at motion with a constant speed and direction unless acted upon by another force | | |
| 21. Newton's 2 nd Law | Acceleration depends on net force and mass. F = ma | | |
| 22.Newton's 3 rd Law | For every action, there is an equal and opposite reaction (action-reaction). | | |
| 23. Potential Energy | Stored energy | | |
| 24.Terminal Velocity | Force of gravity = force of air resistance | | |
| 25.Kinetic Energy | Energy in motion | | |
| 26.Universal Law of Gravitation | Scientific law states that every object in the universe attracts every other object | | |