**Mid-Term Guidelines**

**The test will consist of 2 parts:**

1. **Multiple choice (30%)**
2. **Problems (70%)**

**Make sure you practice the following:**

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| **MATH REVIEW** | * Conversions * Trigonometry/Algebra/Geometry * Vectors |
| **KINEMATICS 1D** | * Horizontal Motion (objects moving in x-axis) * Vertical Motion (Free Fall) |
| **KINEMATICS WITH GRAPHS** | * Practice how to draw X-t, v-t and a-t graphs |
| **KINEMATICS 2D** | * Projectile Motion problems   \*Entire Parabola  \*Half a parabola  \*Objects launched from a building/cliff, go up and then go all the way down (like the Hunger Games Competition) |
| **LAWS OF MOTION** | * Free Body Diagrams * FNET=ma * Tension (Static) * Tension problems with pulleys * Incline Plane * Incline plane with pulleys * Friction problems |

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