***Lesson Plans for the Week of: 12/12/16 Teacher: Hough Course: Physics Period: 3***

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| Elements of  a Lesson | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Objective/  Focus/  Essential  Question | PS.2a,e; 5c  Calculate net force on an object in 2 dimensions | PS.2a,e; 5c; 6a  Quiz  Begin exam review | PH.5d,e  --Review topics of areas of physics through topics concerning motion maps and distance vs time graphs, applying equations | PH.1a,m;2a,b,c,d,e;4a;  5a,d,e  -Review force diagrams, force, and general vocabulary | No Class |
| Lesson/Act.  Type of Presentation | Whole group:  Model how to find the net force on an object that is experiencing 4 forces in 2 dimensions—magnitude and direction  Small groups:  Students solve 2D net force problems  p. 143#10-11 | Individual:  Quiz: kinetic and potential energy (both types); 2D net force calculation | Whole group  Review motion maps (creating and interpreting, constant and changing velocity) and interpreting distance vs time graphs and velocity vs time graphs  Individual:  practice converting between d vs t graph, motion map and v vs t graph  Whole group:  Go over results  Go over equations  Individual:  Practice using the equations from this semester | Whole Group:  Go over homework  Vocabulary terms: inertia, force, weight, acceleration, projectiles, vectors/scalars (with examples)  Review force diagrams:  Fnet=0 and Fnet not zero  Individual:  Practice 2 force diagram problems |  |
| Evaluation |  |  | Teacher observation, student questions/responses | Teacher observation, student questions/responses |  |
| Extension/  Homework |  |  | Complete the practice work (worksheet) |  |  |

Materials:

Monday: Review Guide

Tuesday: Quiz

Wednesday: teacher-made practice worksheet

Thursday: Teacher made list of topics for midterm exam; whiteboards and markers

Friday: