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

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| Elements ofa Lesson | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Objective/Focus/Essential Question | PS.2a,e; 5cCalculate net force on an object in 2 dimensions | PS.2a,e; 5c; 6aQuizBegin 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 directionSmall groups:Students solve 2D net force problemsp. 143#10-11 | Individual:Quiz: kinetic and potential energy (both types); 2D net force calculation | Whole groupReview motion maps (creating and interpreting, constant and changing velocity) and interpreting distance vs time graphs and velocity vs time graphsIndividual:practice converting between d vs t graph, motion map and v vs t graphWhole group:Go over resultsGo over equationsIndividual:Practice using the equations from this semester | Whole Group:Go over homeworkVocabulary terms: inertia, force, weight, acceleration, projectiles, vectors/scalars (with examples)Review force diagrams:Fnet=0 and Fnet not zeroIndividual: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: