***Lesson Plans for the Week of: 12/5/16 Teacher: Hough Course: Physics Period: 3***

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| Elements ofa Lesson | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Objective/Focus/Essential Question | PH.2e; 5c,d,eReview for Test | PH.2e;5c,d,eTest about Newton’s 2nd Law and projectiles | PH.2a,6a--apply the kinetic energy equation in appropriate word problems --Differentiate between the types of potential energy | PH.2a,6aApply the potential energy equations in appropriate word problems | PS.2a,e; 5cCalculate net force on an object in 2 dimensions |
| Lesson/Act.Type of Presentation | Small groups:Review for test--4 practice problems to solve (with discussion): Break into 2 groups: a) projectile problem and 1D F=ma problem (forces in 2 directions) b) 2D net force problem and one direction F =ma problemGroups will present results and reasoningWhole group:--Review vocabulary | Individual: TestBackground for students who will be at blood driveTextbook:a)Define kinetic energy p. 158equationb) from p. 163-164:  -- define potential energy -- define gravitational potential energy and elastic potential energy; write equations | Whole group:Model a sample problem using kinetic energy p. 181 #19-20Differentiate between the two types of potential energy: --grav. PE --elastic PE | Whole group:Apply word problems utilizing potential energyModel Sample problem p. 181 #23bFocus on the fact that x in PEelas is the difference between rest position and stretched (or compressed) positionIndividual:Practice applying potential energy equations: p. 181#23a,c; p. 166#1 | 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 |
| Evaluation |  |  |  | Student work |  |
| Extension/Homework |  |  | p. 160 #2-4; p. 166 #2; p. 181 #24, 25 |  |  |

Materials:

Monday: Review Guide

Tuesday: Test

Wednesday: Textbook; OneNote; spring scale or slinky

Thursday: Textbook; OneNote; spring scale or slinky

Friday: