***Lesson Plans for the Week of: 4/10/17 Teacher: Hough Course: Physics Period: 3***

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| Elements of  a Lesson | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Objective/  Focus/  Essential  Question | PH.12f,j  solve nuclear equations | PH.12i  a) identify the cause of superconductivity and the main condition under which it occurs  b) describe the significance of Tc in the process of superconductivity | PH.8c;12f,j,i  Quiz  Begin Review for Benchmark test | Benchmark Review: Vectors, Motion | No School |
| Lesson/Act.  Type of Presentation | a) Review the concept of nuclear reaction:  i) In nuclear reactions, new elements are formed;  ii) other particles and energy are also formed in nuclear reactions;  b) on worksheet, teacher models how to solve nuclear reaction;  c) students practice solving remaining nuclear equations on worksheet  d) for lower level students, more prompting and assistance may be needed on classwork worksheet | a) Define superconductivity and explain when it occurs; (use the opportunity to review resistance and the factors which affect it)  b) define critical temperature; utilize Tc table to demonstrate that superconductivity is not a new phenomena; what is new is the alloys which have higher Tc and make superconductivity an achieveable effect ;  c)describe the Meissner effect, status in applications today  d) Show YouTube video demonstrating the Meissner effect | Quiz about lenses, subatomic particles, superconductivity | Review Vectors, displacement, Motion for benchmark: possibly use buggies on incline |  |
| Evaluation | teacher observation and results of practice worksheet |  |  |  |  |
| Extension/  Homework | homework: p. 784 #1-4 |  |  |  |  |
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Materials:

Monday: teacher-made PowerPoint and worksheet, textbook

Tuesday: quiz review

Wednesday: quiz

Thursday: buggies, ramp?

Friday: