***Lesson Plans for the Week of: 2/19/17 Teacher: Hough Course: Physics Period: 3***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Elements of  a Lesson | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Objective/  Focus/  Essential  Question | PH.11b  a) understand how the factors in a series circuit are impacted by changes in voltage and/or current  b) calculate equivalent resistance for a series circuit | PH.12a,c,e  Video about Albert Einstein | PH.12a,c,e  Band Trip  Video about Albert Einstein | No school | No School |
| Lesson/Act.  Type of Presentation | small group:  a) Review series and parallel circuits from 8th grade  b) Set up series and parallel circuits with ammeters/voltmeters; have students observe how current and voltage change (quantitatively) in these circuits when light bulbs and batteries are changed—use whiteboard to record observations  b) Clarify the factors which make a series circuit; also, how current and voltage are affected in a series circuit  c) Define Req for any circuit  d) Model how to calculate Req for series circuit  Individual:  e) Students will answer question 1 (all parts) about current, voltage, and voltage (individual and equivalent) for a series circuit | Non-band: Watch Einstein Revealed answer questions  Differentiation Band: Watch Einstein‘s Big Idea and answer questions | Non-band: Einstein Revealed and answer questions  Differentiation Band: Watch Einstein’s big Idea and answer questions |  |  |
| Evaluation | Results of completed worksheet | Questions about video | Questions about video |  |  |
| Extension/  Homework | p. 638#2,3,4,6 (show work) |  |  |  |  |

Materials:

Monday: Concept review worksheet from Holt: parallel and series Circuits; batteries, wires w/alligator clips, light bulbs, voltmeter, ammeter, whiteboard, markers

Tuesday: Einstein Revealed video, worksheet

Wednesday: Einstein Revealed video, worksheet

Thursday:

Friday: