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

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Elements ofa Lesson | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Objective/Focus/Essential Question | PH.11ba) understand how the factors in a series circuit are impacted by changes in voltage and/or currentb) calculate equivalent resistance for a series circuit | PH.12a,c,eVideo about Albert Einstein | PH.12a,c,eBand TripVideo about Albert Einstein | No school | No School |
| Lesson/Act.Type of Presentation | small group:a) Review series and parallel circuits from 8th gradeb) 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 observationsb) Clarify the factors which make a series circuit; also, how current and voltage are affected in a series circuitc) Define Req for any circuitd) Model how to calculate Req for series circuitIndividual: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 questionsDifferentiation Band: Watch Einstein‘s Big Idea and answer questions | Non-band: Einstein Revealed and answer questionsDifferentiation 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: