***Lesson Plans for the Week of: 4/10/17 Teacher: Hough Course: Physical Science Period: 1,2,7/8***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Elements ofa Lesson | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Objective/Focus/Essential Question | PS.11b,ca) recognize that electric current forms a magnetic fieldb) identify the factors which change the strength of an electromagnet | PS.6b; 11ccontrast generators and motors (energy review) | PS.1n;6b;11a-cQuiz | PS.1g,I,j,m;8a review for Benchmark? | No School |
| Lesson/Act.Type of Presentation | a) bellwork: If a magnet is broken in half, how many poles does each half have?b) Confirm that compasses utilize the Earth’s magnetic fieldc) Demonstrate that compasses point in the wrong direction when they are near a current carrying wired) define electromagnet and demonstratee) confirm and demonstrate factors which change the strength of an electromagnetf) Student worksheet | a) Students will use hand generator to create a working circuitb) Students will connect the battery to the hand generatorc) Through student discussion, we will label the hand generator as a machine which converts mechanical energy to electrical energy (This will also be an energy review—PS.6) d) In a similar manner, we will label an electric motor as a machine which converts electrical energy to mechanical energy | Review for quizQuizVideo: Making things smaller | Use worksheet from Science World about Speed of sound to practice reading tables, conclude about speed of soundHistogramHave students interpret particle diagrams of a chemical change, then design a particle diagram of a physical change on individual whiteboards |  |
| Evaluation | Student worksheet | exit pass |  |  |  |
| Extension/Homework |  | Study Guide |  |  |  |
|  |  |  |  |  |  |

MATERIALS:

Monday: magnet, broken magnet, D and 6 V batteries, overhead projector compass demonstration; homemade electromagnet, paper clips; Pearson worksheet; vocabulary list

Tuesday: Genecom hand generator, D battery, wires with alligator clips, light bulb, study guide

Wednesday: quiz

Thursday:

Friday: