***Lesson Plans for the Week of: 3/6/17 Teacher: Hough Course: Physical Science Period: 1,2,7/8***

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| Elements of  a Lesson | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| Objective/  Focus/  Essential  Question | PS.6a,b;10c,d  Review for test | PS.6a,b;10c,d  Test | PS.10c,d  Apply the concept of efficiency to simple machines | PS.10c,d  Identify examples of Pulleys and Wheel and axle, recognizing the features which change mechanical advantage and efficiency in each | PS.10c,d  Identify examples of levers, and how to change the MA on different types of levers |
| Lesson/Act.  Type of Presentation | Practice questions for test  If time permits, watch part of “Making Stuff Smaller” | Test | Notes: Define efficiency; apply concept to known machines: inclined plane, wedge, screw  Differentiation: Have 2nd period measure and compare the amount of work done using inclined plane with and without textured surface in order to “see” the idea of efficiency | Bellwork: Identify the  Notes: Label the concept behind the pulley and the wheel and axle  Demonstrate types of pulleys and block and tackle (with spring scale), and how the design affects MA  Differentiation: Have 2nd period measure MA of block and tackle and compare the MA with that of the count-the-ropes method | Identify the differences between the different types of levers  Phet simulation to determine how to change the MA for each type of lever |
| Evaluation |  |  |  | Exit pass | Lever worksheet |
| Extension/  Homework |  |  |  |  |  |
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MATERIALS:

Monday:

Tuesday: :

Wednesday: model inclined plane, spring scale, rough surface, 1 kg mass

Thursday: pulley demonstration model, block and tackle demo model, 1 kg mass, spring scale

Friday: rake, broom, wire cutters, scissors, meter stick/watch glass; Road Runner/Wile E. Coyote cartoon; Phet lever simulation: <https://phet.colorado.edu/sims/html/balancing-act/latest/balancing-act_en.html>