Assignment Sheet 7th Grade

Week of January 11, 2016

Objective: Today I am gathering and organizing information so that I can design a valid experiment. I am also differentiating between conduction, radiation and convection so that I understand how thermal energy is transferred between substances. Finally, I am using the Kinetic Molecular Model or the Kinetic Theory of Matter to explain how changes in temperature (thermal energy) is transferred as heat from warmer objects to cooler objects.

\_\_\_\_\_Game Heat Transfer (Interactive Basketball) Classify examples as conduction, convection, and radiation: <http://sciencereviewgames.com/srg/games/hs.php?id=27>

\_\_\_\_\_a) Heat Transfer Rap Video (see Weebly page under video tab) b) Study Jam “Heat” c) Heat Transfer Rap <http://www.teachertube.com/video/radiation-conduction-and-convection-159713> . Summarize what you learned below (at least 4 sentences)

\_\_\_\_\_ Heat Transfer Lab ( Teacher will provide instructions)

\_\_\_\_\_ Facts and Concepts Science Fair Topic Two. Teacher will have questions/objectives that must be included in your research. Please view video on how to write a multiple paragraph essay (on my Weebly page)

\_\_\_\_ Peer editing Facts and Concepts

\_\_\_\_Facts and Concepts typed

\_\_\_\_ Logbook entries made for the week

\_\_\_\_Bibliography (go to easy bib and generate this as you get background research) watch video: my Weebly page on bibliographies

\_\_\_\_a) Video Summary Rap Kinetic Theory of Matter b) Video Summary **Study Jam: States of Matter…**Summarize both videos in at least 4 sentences in the space below.

\_\_\_Interactive Game “States of Matter” <http://www.glencoe.com/sites/common_assets/science/virtual_labs/E17/E17.html>

Write a conclusion and include a data table with results. Use the steps for writing a conclusion. Be sure to formulate a hypothesis, identify variables, create a data table and graph results (go to create a graph).

Question:

Hypothesis:

IV

DV

Constant

Data Table

Conclusion

\_\_\_\_\_Science Fair: Discovery (see science fair packet for details) edited/typed

\_\_\_\_\_Science Fair: Application ( see science fair packet for details) edited/typed

CFA on Friday: Thermal Energy/Heat Transfer/ Kinetic Theory of Matter (States of Matter)