**MSSCP 591 – Pedagogy of Inquiry STEM Teaching II**

**Assignments**

Ready, Set, Science! Putting Research to Work in K-8 Classrooms

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**Monday**

**In Class**

* Review Course Rubric and responsibilities
* Complete Registration process
* Locate APPENDIX F – Science and Engineering Practices in the NGSS- [Partners in Inquiry](http://inquiryteaching.weebly.com/)
* [How to do Engineering Projects](https://science-fair.org/students-parents/winning-engineering-projects/)

**Home Opportunity**

* Read/Discus [NGSS](http://www.nextgenscience.org/search-standards-dci?tid_1%5B%5D=14&field_idea_tid%5B%5D=141) , How does NGSS Engineering Design relate to your grade level. (Look for the asterisk, these are examples that relate to Engineering)
* [Lewis Center For Education](http://www.lewiscenter.org/AAE/Departments/Science/Teaching-the-Next-Generations-Science/) Asking Questions and Defining Problems
* What is a “problem” in engineering? Brainstorm types of problems as it relates to possible Engineering Design products
* Write reflections in your notebook, reflective comments representing processing of information and formation of constructions from today’s workshop.

**Tuesday**

**In Class**

* All payments and paper work is due for registration
* Discus [NGSS](http://www.nextgenscience.org/search-standards-dci?tid_1%5B%5D=14&field_idea_tid%5B%5D=141) , How does NGSS Engineering Design relate to your grade level. (Look for the asterisk, these are examples that relate to Engineering)
* Find 3 examples of Engineering Design problems/products related to your grade level to share.
* What is a technical drawing?
* Share literature related to Engineering Design Products

**Home Opportunity**

* View [Lewis Center For Education](http://www.lewiscenter.org/AAE/Departments/Science/Teaching-the-Next-Generations-Science/) Developing Models,
* Narrow your focus - Decide on an Engineering Design problem to solve as it relates to your grade level.
* Select an Engineering problem to research and present on Friday in a 5 minute presentation.
* Research, begin product It should be something that you will use in your classroom.
* Create 1st Technical Drawing
* Continue to update your notebooks.

**Wednesday**

**In Class**

* Review elements of reflective paper
* What is a technical drawing?
* Dive deeper into Engineering products online

**Home Opportunity**

* [Lewis Center For Education](http://www.apple.com) - Planning and Carrying Out Investigations
* How will you gather data?
* Begin writing Reflection Paper.
* Finalize your Engineering Project / Begin Engineering Project Design
* Notebook reflections

**Thursday**

**In Class**

* Complete Engineering Project In

**Home Opportunity**

* Update notebooks
* Finish Reflective paper

**Friday**

* Present Engineering Project during Pizza lunch
* Grades distributed