**Orbital Studies**

Assignment date: Thursday May 15, 2014- Individually or up to 2 people in the group.

*You will be able to choose the topic that interests you that “orbits” the curriculum. There are many fascinating things in Physical science that we did not get a chance to cover.* ***THIS IS WHERE YOU COME IN!*** *Research a topic that relates to our curriculum (MagLev trains, man-made atoms, chemicals that do special things, zero gravity, etc) Once you have completed your research, you will have a 10-15 minute presentation or a demonstration to teach this topic to an audience. You will also have a handout (1 page) for the audience to follow along.*

**Tasks to be Completed & Grading**

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| **Notes** (typed or handwritten)  Notes need to be at least 2 pages. If you use direct quotes, they must be cited properly. Please see: <http://owl.english.purdue.edu/owl/> for proper citing | **Works cited page, Proper citing** and information collected from **various resources** (at least 5 different resources; 3 different types of resources)  Types of resources may include: scientific paper, journal article, published paper, an educational website, textbook, a resource book, etc) | **Product**  Product can be a PowerPoint/prezi/Powtoon presentation, a lab to demonstrate a concept, a poster board summarizing important concepts, a physical model or a simulation, an educational video, or an educational book. It must be neat & comprehensibly display the concept. |
| **15 Points** | **10 Points** | **30 Points** |
| **Presentation**  Presentation must be within 10-15 minute time frame (please rehearse beforehand).  Presenter must educate the audience about the concept in a clear and well-planned manner.  Presenter must be able to clear up any misunderstanding or confusion from audience regarding the topic. | **Handout**  Handout must be 1 page in length- it should be used to help audience remember the material long after the presentation is over.  Key facts are outlined, important concepts are covered.  This can be an “activity sheet” format, so that the audience stays engaged (fill in the blank, for example). | **Conduct**  All students are expected to stay on task when given classroom time to work on the project. The students will work independently/cooperatively in a timely manner.  All students are expected to be respectful while other students are presenting. The students who are respectful will refrain from talking during other student presentations, will refrain from making criticizing remarks or comments, will be fully engaged and actively participate when appropriate. |
| **20 Points** | **15 Points** | **10 Points** |

**\*Some of the main topics we covered in this class are: chemistry (periodic table, atoms), forces, energy (energy conversion), electricity, waves, magnets. ANYTHING physical science (not life, not earth science) can be covered with orbital studies!**