**Wasurick Physics Distance Learning Week 4 Assignment**

Last week you were asked to write an essay about energy production using fossil fuels and a renewable energy source. This week, you are to take that essay and turn it into a presentation for your family. I would you to become the teacher. Educate your family on the important issue of climate change because of human energy needs.

* **Possible Ideas**
1. Make a poster and present
2. Make an electronic presentation and connect your device to the tv
3. Make an info pamphlet
4. Make a short video
* **Required content**
1. How power plants use fossil fuels to make electricity
2. How are magnets involved in the production of electricity
3. An in-depth look at a renewable energy source (wind, solar, nuclear, etc)
* **Things to turn in**
1. For online students, turn in as much of the project as possible. I’ll take the powerpoint, a video, picture of the poster.
2. For offline students, turn in as much of the project as possible. Poster is easiest thing to turn in. The pamphlet is also a convenient way to do this offline.

**Wasurick Physics Week 5 Assignment**

Week 5 is optional: The great engineering challenge. This will work best if you can convince members of your family to a friendly competition.

1. Using only items found in your house, build the fastest racecar possible. Set up a short track in your house on flat ground. It may be important to set limitations on items used for your racecar such as, you cannot use an RC car as your car. Please stretch those engineering muscles and **build** a cool car. If you can, turn in something. I would love to see what everyone comes up with, but again this is optional.
2. Extreme Bridge Building!!! Now is your chance to take everything you have learned about bridges during the first semester and build the craziest bridge possible. In this challenge you must not only build your bridge, but design how to test it. If you use popsicle sticks, you can definitely stand on a well designed bridge. Post pictures of your bridge and results to Edmodo and show off your amazing designs.