**Intro to Webquests - Grade 8 style!**

Today you will be using the internet and search engines to find answers to Physical Science and other questions.  Answer the questions to the best of your ability using the web sites given and search on your own if necessary. Write your answers in the spaces below the question.

1.   Go to <http://glencoe.mcgraw-hill.com/sites/0078802482/student_view0/brainpop_movies.html>

Go to Brain Pop Movies, and watch the Atomic Model Brain Pop Movie.

a.  Who is the first scientist mentioned?

 b.  When did JJ Thompson discover the electron?

c.  Take the quiz.  How many..... Right?                    Wrong?

2.      Go to <http://www.exploratorium.edu/ronh/weight/>, and see how much you would weigh on each planet.  What affects how much you weigh on each planet?  Put the planets in order from least amount of weight to your greatest amount of weight.

3.      Use the site [www.exploratorium.edu/cooking/index.html](http://www.exploratorium.edu/cooking/index.html) , go to the candy section to locate the sucrose molecule.  What is sucrose and what elements are in the molecule.

4.      Go to <http://nobelprize.org> and define and discover who received the Nobel Prize for the following:

a)      Laser

 b)      Transistor

 c)      Blood-typing

 d)     DNA

5.  Investigate one way that [friction](http://teacher.scholastic.com/dirtrep/friction/invest.htm) works either for or against you as you go about your day, and then write about it.

6.  What does a [roller coaster](http://www.discovery.com/tv-shows/other-shows/videos/time-warp-roller-coaster-science.htm) have to do with grade eight sciences? (name 2 things)

7.  Name the [four phases of matter](http://teach.fcps.net/trt8/Weaver/states_of_matter_webquest.htm).

8.  Using those same [four phases of matter](http://teach.fcps.net/trt8/Weaver/states_of_matter_webquest.htm), what happens when you add energy to each phase?

9.  When you [click on the gas button](http://www.harcourtschool.com/activity/states_of_matter/), what happens to the particles?

 10. Where in your house would you fine [radio waves](http://science.hq.nasa.gov/kids/imagers/ems/radio.html)?

 11.  How fast does [sound travel](http://www.ducksters.com/science/sound101.php) in water?  In air?

12.  Arrange the following [prefixes](http://www.regentsprep.org/regents/math/algebra/am2/lesmetr.htm) in order from largest value to smallest value:  milli, kilo, deka, centi, deci, and hecto.  Write them in order below.

12. Try a few different types of combinations of “[Tug ‘O War](http://phet.colorado.edu/sims/html/forces-and-motion-basics/latest/forces-and-motion-basics_en.html)” games and explain the concept between winning and losing at this type of game.

 14.  [Click on the download](http://phet.colorado.edu/en/simulation/build-a-molecule) key for build a molecule, if you need help please ask.  Try to build some molecules, two or more elements that chemically join together to create a new substance.  Draw and label three molecules that you have made.

 15**.  How are** [weight and mass](http://www.nyu.edu/pages/mathmol/textbook/weightvmass.html) **different?**