The Nano Nugget

* **Internet Investigation: Search the Worldwide Web to find the answers to questions 1-2**

1. How big is a nanometer? (For example, if you had to describe it to your friend, how would you do it?)
2. Why is gold the element that is being used?

* **Watch the 1st You Tube video on “3rd Nine Weeks Assignments” Page to answer questions 2-8. Use complete sentences to answer.**

1. What is the problem being addressed in this video?
2. What was Angela’s hypothesis?
3. Draw, color and label the model of the nanoparticle that Angela created to get rid of the cancer.
4. What is used to actually “kill” the cancer cells?
5. How are the surrounding healthy cells affected by this treatment?
6. How is the hypothesis tested?
7. What is the conclusion to this treatment? Does it work? How? When?
8. Summarize the cancer treatment and what you think about Angela and her educational goals. Use at least 4 sentences.

* **Watch the 2nd You Tube video on “3rd Nine Weeks Assignments” Page to answer questions 11-14. Use complete sentences to answer.**

1. What benefits are there to nanomedicine
2. How do nanoparticles help heal or treat “specific parts of the body”?
3. What diseases could be treated with nanomedicine?
4. What takes place or needs to take place before these can be prescribed to patients?

* **Click the link “About Nanotechnology” on “3rd Nine Weeks Assignments” Page to answer questions 15. Use complete sentences to answer.**

1. Which of the 6 benefits of using nanotechnology is the most important and why?

* **Click the 2 Nanooze Articles on the “3rd Nine Weeks Assignments” Page to complete the activities below. Use complete sentences to answer.**

1. Summarize in 2-3 sentences the content of these two articles.
2. Create a “word cloud” or “word collage” using the KEY words that are found in these articles as they relate to nanotechnology and cancer treatment.