

## ***Chemistry***

### ***Summer Reading Assignment***

Read the article [\*Brushing Innovations, Built on Titanium\*](#) By Joyce Cohen, New York Times, Tuesday November 13, 2007. This assignment will be collected the ***first day*** of class.

1. Create a title page with a heading titled Chemistry Summer Reading Assignment, put your name and the date.
  - a. Write the chemical symbol and the year titanium was discovered.
  - b. Look up and write the chemical symbol for Titanium dioxide.
  
2. Using the article complete the following, be sure to write neatly and answer all questions in complete sentences.
  - a. Use the context clues to figure out the meanings of any unfamiliar words. As you read the article, jot down your inferred meanings of the following words: electrochemical reaction, photocatalytic, electron, wavelength, visible light, aqueous solution, electrolyte, alloy, efficacy, prosthodontist, slurry and paradigm shift. After reading the article, use a dictionary to check the meanings as well. Note each word's part of speech and origin.

**Word:** \_\_\_\_\_ **Part of speech:** \_\_\_\_\_

**Inferred meaning:** \_\_\_\_\_

**Dictionary meaning:** \_\_\_\_\_
  
- Core Ideas: Answer the following questions in complete sentences.
  - b. Share the central ideas and key details of the article in a well written and organized summary.
  - c. Describe the author's point of view and/or purpose in writing this article.
  - d. Explain how this article might connect to the information you might learn in class. Cite specific evidence from the text.
  - e. Reflection: Did you enjoy this article? Why? Or Why not? Would you recommend it to another student taking this class? Explain your biggest take-away from this article.
  
3. Design a magazine advertisement (hand drawn or computer generated, size 8 ½ x 11 for the titanium toothbrush. Your advertisement should include but is not limited to the following: a slogan, 4 facts from the article, and a creative graphic design. Be creative!!!