

Student Worksheet

Exploring Nanotechnology through Consumer Products

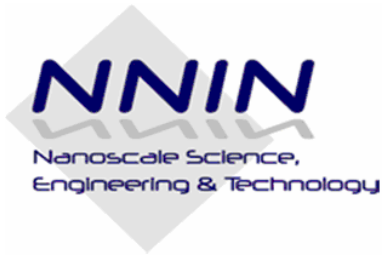
This activity provides you with an introduction to nanotechnology. You will learn how small a nanometer is, what is different about the nanoscale world, what are the tools of nanotechnology, and information on what education and career opportunities are available to you. You will learn about current uses of nanotechnology by examining currently available consumer products. Think critically about these products – are they really good? Do they have any potential harm? Are they better than non-nanoproducts?

Directions for Exploring NanoProducts

1. Your teacher will provide an introduction to nanotechnology by presenting a PowerPoint called *An Introduction to Nanotechnology – What’s all the hype about?*
2. Your teacher will post the directions for the consumer products activity in the PowerPoint presentation.
3. Open your NanoProduct container and remove the product and its description sheet.
4. Read the material and study the product.
5. Discuss in your group the product and prepare a short presentation about the nano-enhanced product.
6. Be able to tell the class:

a. What is the product?

b. How is it used?



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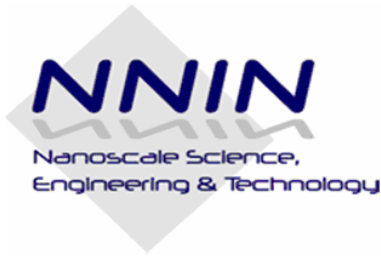
c. What is “nano” about it?

d. How does it work?

e. How is it different from it’s “non-nano” counterpart?

f. Any other information?

g. What do you think of the product?



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- h. How would you test the claims of the product? What would be the experiment(s)?**

Additional Questions

- i. What is nanotechnology?**

- j. Explain or draw what is meant by the nanoscale (i.e. the size of nano).**

- k. Do you have to be a Ph.D. (have a doctorate degree) to work in nanotechnology? Why or why not?**

- l. Do all nanotechnology jobs focus on doing complicated research in a laboratory? Why or Why not?**
