Honors Chemistry Hour\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Dr. Wexler  
Radioactive Decay Quiz 1 (open note)  
Date assigned:

1. Draw and label a representation of an alpha particle

2. An electron (beta-minus particle) is emitted from what subatomic particle during beta-minus decay?

3. What change occurs to the subatomic particle referred to in question 2 when an electron is emitted?

4. If Seaborgium-271 emits an alpha particle, what isotope does it become? (give the element name and its atomic mass)

5. If Seaborgium-271 emits a beta-minus particle, what isotope does it become? (draw the isotope symbol with the mass number and atomic number).