Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour:\_\_\_\_\_

**Half Lives  
10 Minute Homework Assignment – Due Tomorrow, start of class!**

1. Define half-life:
2. If the half life of C-14 is 5,730 years…
   1. How old is a fossil that has 25% of its original C-14 remaining?
   2. How many half lives will have happened if a 150g sample of C-14 decays to 18.75g?
   3. How many years does it take for 2,000g of C-14 to decay to 250g?
   4. What percent of C-14 remains after 5,730 years?
   5. How much C-14 would be left in a 100g sample after 4 half-lives? (give you answer in grams)

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