## 7.2 Half Life Science 10 Notes



## Practice Problems

Try the following half-life problems yourself. Use the decay curve shown below for carbon-14.



- 1. What is the length of one half-life of carbon-14?
- 2. How many half-lives have passed when there is  $\frac{1}{4}$  of the original amount of carbon-14 remaining?
- 3. Estimate the percentage of carbon-14 remaining after:
  - (a) 5000 years
  - (b) 10 000 years
  - (c) 20 000 years
- Estimate the time elapsed when the amount of carbon-14 remaining is:
  - (a) 70 percent
  - (b) 40 percent
  - (c) 5 percent

Answers:

1. 5730 years 2. 2 half lives 3. a) 55%, b) 30%, c) 8% 4. a) 3000 years, b) 7000 years, c) 23000 years

You will be quizzed on these questions next class.