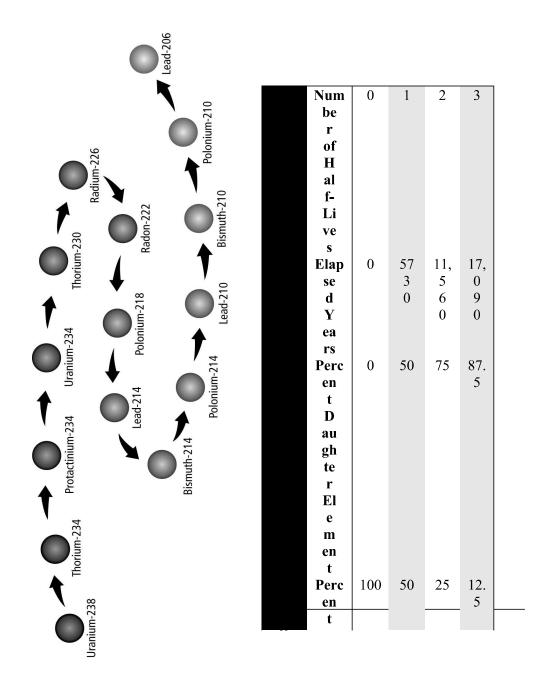
RADIOACTIVE DECAY

Use with Chapter 21 Section 21.3



WORKSHEE 6 Teaching Transparency

RADIOACTIVE DECAY

Use with Chapter 21 Section 21.3

1.	What is the first radioactive element that forms when uranium-238 decays?
2.	What is the half-life of uranium-238?
3.	In the decay of uranium-238, how many radioactive isotopes form before stable lead-206 forms?
4.	What radioactive element forms when bismuth-214 decays?
5.	How is U-238 used to determine the age of a rock?
6.	What nonradioactive element forms when carbon-14 decays?
7.	How long does it take for 50% of a specific amount of carbon-14 to decay?
8.	How many half-lives have passed after 11,560 years?
9.	What percentage of carbon-14 remains after 2 half-lives?
10.	What percentage of nitrogen-14 has formed after 2 half-lives?