

## Chemistry Chapter 16 Outline Nuclear Chemistry

Unit	Date	Objectives	Assessment
1		Describe the strong nuclear force. Use the neutron/proton ratio to predict stability of a nucleus. Describe the band of stability Define and calculate the binding energy of a nucleus.	1-8, 11
2		Describe the types of radioactivity and their particles. Distinguish among transmutation, fusion, and fission. Explain how transuranium elements are synthesized. Describe chain reactions. Give examples of fission and fusion reactions.	12-19, 21
3		Use half lives to calculate the age of an object. Give examples of where radioactive isotopes are used in consumer products. Describe neutron activation's use in analyzing objects. Describe health hazards related to radiation exposure.	22-25, 27
4		Chapter Review questions.	