

Chemistry Lesson Plan

Topic	Nuclear Processes
Lesson Title	Types of Radiation
Lesson Number	7-2
Next Generation Science Standards:	<ul style="list-style-type: none"> • HS-PS1-8. Develop models to illustrate the changes in the composition of the nucleus of the atom and the energy released during the processes of fission, fusion, and radioactive decay.
Learning objectives:	<ul style="list-style-type: none"> • Compare and contrast the ionizing and penetration power of alpha and beta particles and gamma rays. • Complete chemical equations to demonstrate the decay of a given isotope.
“I can” statement:	<ul style="list-style-type: none"> • I can state the differences in the types of radiation and write chemical equations to show how they decay isotopes.
Prior Knowledge:	
<ul style="list-style-type: none"> • Structure of the atomic nucleus • 	
Vocabulary:	
Alpha particle, Beta particle, Gamma ray, penetration power, Transmutation,	
Summary of Activities:	
<ol style="list-style-type: none"> 1. Distribute and complete bell ringer activity. 2. Discuss guided notes and slideshow, with students. 3. Vocabulary worksheet or doodle notes 4. Exit quiz 	
Additional Resources:	
<ul style="list-style-type: none"> • Types of radiation– YouTube Clip 	
Homework:	
Homework task	
Assessment:	
<ul style="list-style-type: none"> • Bell work • Assignment/Lab project • Exit quiz • End of unit review 	