

NOTE-TAKING GUIDE: Unit 11, SEGMENT A

Name:

Date:

Main Ideas, Key Points, Questions:

After watching the video segment, write down key points, main ideas and big questions.

Objective(s):

- To investigate nuclear chemistry using tools for counting and visualizing subatomic particles.
- To identify subatomic particles and their properties.
- To use models to explain the structure and properties of isotopes.

M	ntaci
I N I	ULGO.

During	the video s	eament, us	e words.	nhrases o	r drawings	to t	ake i	notes
Duilling	, uic viaco si	vyillolli, us	, woulds,	piliasus	ı uluvili <u>y</u> ə	LU L	unc i	10103

Summary:

After watching the video segment, write at least three sentences explaining what you learned. You can ask yourself: "If I was going to explain this to someone else, what would I say?"



QUESTIONS TO CONSIDER: Unit 11, SEGMENT A

Name:

Date:

After watching the video and performing any associated labs and/or experiments, you should be able to answer the following:

1.	What is nuclear chemistry?				
2.	How did Henri Becquerel discover radioactivity?				
3.	What instrument can be used to measure the number of radioactive decay particles?				
At this point in the video, you are expected to use cloud chambers to visualize and count nuclear particles. Also, you may sketch a cloud chamber you have used or assembled.					
4.	Describe the vapor trails made as decay particles move through the vapor in a cloud chamber.				
5.	You already know the properties of protons, neutrons and electrons. Describe what you know about these three subatomic particles.				
6.	Which subatomic particle determines stability in the nucleus? How?				
7.	Define isotope.				
8.	Describe atomic fission.				