	Unit 7B Nuclear Fi	ission	Name:
gpb.org/physics-motion	Note-Taki	-	Date:
After watching the video segment, w down key points, main ideas, and big questions.	• De • Un fis		ons under which nuclear fission occurs. Sulate the amount of energy released when nuclear
		lotes:	During the video segment, use words, phrases, or drawings to take notes.
			st three sentences explaining what you learned. This to someone else, what would I say?"

Unit 7B\_Notes and Questions

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## Unit 7B Nuclear Fission

Note-Taking Guide and Questions to Consider Date:

Answer the following.				
1.	Define nuclear fission in your own words.			
2.	What determines whether small nuclei are stable?			

- 3. Why are nuclei unstable if they have fewer neutrons than protons?
- 4. When there are more than \_\_\_\_\_\_ protons in the nucleus, the nucleus is unstable because the strong nuclear force cannot hold it together.
- 5. How does a nuclear reaction inside of a nuclear reactor begin?
- 6. Write Albert Einstein's famous equation that relates energy and mass.
- 7. Briefly describe how nuclear energy in a power plant is converted to electricity.

8. The amount of radioactive material required to maintain a chain reaction is called what?