

Chapter 27 – The Photoelectric Effect and X-Rays

Learning Grid

The Photoelectric Effect and X-Rays	Questions	Answers
	Define the photoelectric effect. Describe a demonstration to observe the photoelectric effect.	
	Explain what is meant by threshold frequency and work function.	
	Write Einstein's equation explaining the photoelectric effect and explain each of the variables involved.	
	What is a photocell? Draw the circuit symbol for a photocell.	

The Photoelectric Effect and X-Rays	Questions	Answers
	Describe a demonstration to show how a photocell produces current.	
	What are X-rays and how are they produced?	
	Draw a diagram of an X-ray tube.	
	Explain how the photoelectric effect could be considered the inverse process of X-ray production.	