

Chapter 22 – Semiconductors

Learning Grid

Semiconductors	Questions	Answers
	Distinguish between electrical conductors and insulators.	
	What is a semiconductor?	
	Explain what a valence electron is.	
	What are the two methods of changing the conductivity of a semiconductor?	
	What is a 'hole' in semiconductors?	
	Distinguish between intrinsic and extrinsic semiconductors.	

Semiconductors	Questions	Answers
	Distinguish between p-type and n-type semiconductors. Which periodic group is best for each type?	
	Draw a diagram for a p-n junction connected in forward bias. Mark in the depletion layer and the positive and negatively charged regions.	
	Explain what is meant by junction voltage.	
	Give three applications of semiconductors.	