

Lewis Structures of Atoms and Ions WS

#	Question	Answer	
1	What is the octet rule? Explain its role in bonding between atoms		
2	Indicate how many electrons must be gained or lost by each of the following atoms to achieve a stable electron configuration (3 lost, 2 gained, etc)	a) Sr b) Sb c) Si	d) S e) Se f) Xe
3	Which of the following pairs of elements will not form ionic compounds? Explain why or why not for each pair.	Sulfur and Xenon	Sodium and Calcium
		Strontium and Sulfur	Selenium and Chlorine
4	Draw the Lewis Structure for the following Ions or Compounds		
	a) K	f) K ⁺	
	b) Ba	g) Ba ²⁺	
	c) C	h) C ⁴⁻	
	d) S	i) S ²⁻	
	e) Br	j) Br ⁻	

Lewis Structures of Atoms and Ions WS

#	Question	Answer	
1	What is the octet rule? Explain its role in bonding between atoms		
2	Indicate how many electrons must be gained or lost by each of the following atoms to achieve a stable electron configuration (3 lost, 2 gained, etc)	g) Sr h) Sb i) Si	j) S k) Se l) Xe
3	Which of the following pairs of elements will not form ionic compounds? Explain why or why not for each pair.	Sulfur and Xenon	Sodium and Calcium
		Strontium and Sulfur	Selenium and Chlorine
4	Draw the Lewis Structure for the following Ions or Compounds		
	a) K	f) K ⁺	
	b) Ba	g) Ba ²⁺	
	c) C	h) C ⁴⁻	
	d) S	i) S ²⁻	
	e) Br	j) Br ⁻	