

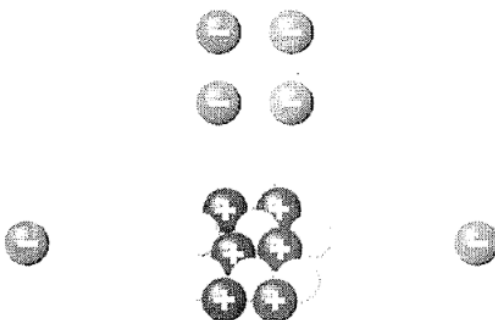
Goal • Demonstrate your knowledge of subatomic particles.

What to Do

1. Complete the chart below to show the location and electric charge of the three subatomic particles.

Particle	Location in Atom	Electric Charge
Electron		
Proton		
Neutron		

Use the diagram of an atom to answer the following questions.

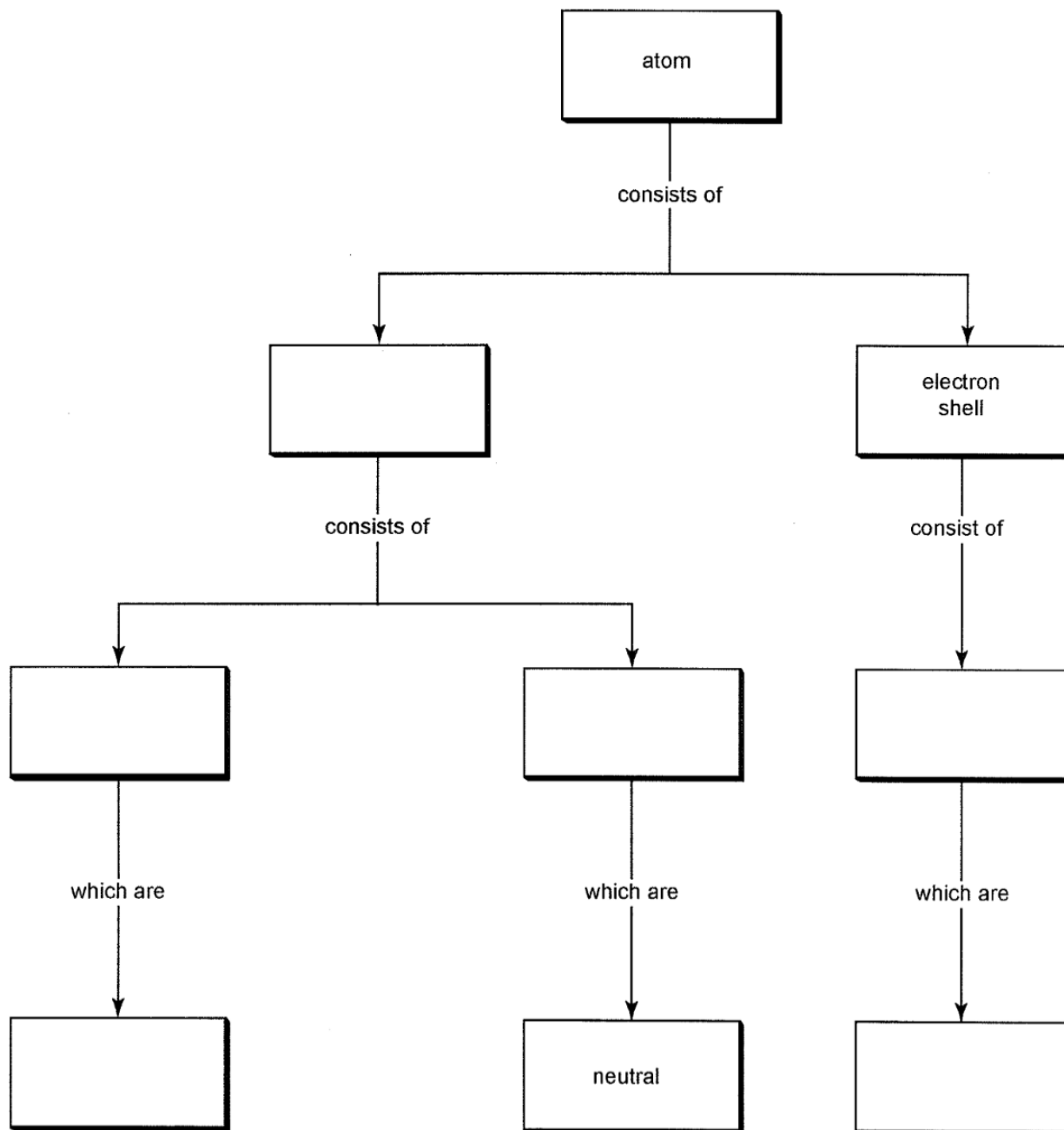


2. Label the parts of the atom. Include the following labels: proton, electron, neutron, energy level, nucleus.
3. (a) What is the electric charge of this nucleus? _____
(b) What is the electric charge of this atom? _____

Goal • Complete concept map that shows the relationship among the parts of the atom.

What to Do

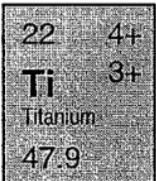
Complete this concept map for the parts of an atom. Use each of the following terms
electron, negatively charged, neutron, proton, nucleus, positively charged



The atom and the subatomic particles

1. Use the following vocabulary words to label the diagram.

Vocabulary	
common ion charge	symbol
other ion charge	atomic number
name	average atomic mass

(a) _____		(e) _____
(b) _____		(f) _____
(c) _____		
(d) _____		

2. Examine the periodic table for the element below and complete the blanks.

35
Br
Bromine
79.9

- | | |
|---------------------------|-------------------------------|
| (a) atomic number _____ | (b) average atomic mass _____ |
| (c) ion charge _____ | (d) number of protons _____ |
| (e) name of element _____ | (f) number of neutrons _____ |

Date: _____

Name: _____

PROPERTIES OF THE ATOM

ELEMENT NAME	ATOMIC #	ATOMIC MASS	# OF PROTONS	# OF NEUTRONS	# OF ELECTRONS
Beryllium					
Aluminum					
Argon					
	20				
		39.1			
	27				
Molybdenum					
		107.9			
					79
			53		
	22				
		183.9			
					35
			14		
Bismuth					
				125	

Periodic Table Puns

Name _____

Use your imagination and the elements in the Periodic Table to solve each pun!

Example: Five cents - Nickel, Ni

- | | | |
|-------------------------------------|-------|-------|
| 1. What you do in a play | _____ | _____ |
| 2. What you do to a wrinkled shirt | _____ | _____ |
| 3. "Tasty" part of your mouth | _____ | _____ |
| 4. Someone who likes to start fires | _____ | _____ |
| 5. Superman's weakness | _____ | _____ |
| 6. Your brother or mine | _____ | _____ |
| 7. Extinct | _____ | _____ |
| 8. Imitation diamond | _____ | _____ |
| 9. A type of flower | _____ | _____ |
| 10. Las Vegas lights | _____ | _____ |
| 11. Police | _____ | _____ |
| 12. Golden State | _____ | _____ |
| 13. Name of a goofy convict | _____ | _____ |
| 14. Mr. Mony's enemy | _____ | _____ |
| 15. What you do to flowers | _____ | _____ |
| 16. What you did to ripped jeans | _____ | _____ |
| 17. A "prize" element | _____ | _____ |
| 18. A very smart person | _____ | _____ |
| 19. Person from the big blue planet | _____ | _____ |
| 20. A fur seller | _____ | _____ |

Do you have any "punnies" of your own? Write them below. Be sure to include the answers.

- | | |
|-----------|-------|
| 21. _____ | _____ |
| 22. _____ | _____ |
| 23. _____ | _____ |