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1) Order the following from least to most massive:

Atom Number
Mass Number
Atomic Mass
Atomic Weight
Atomic Number
Atomic Weight

2) Give the number of protons for an atom with 7 protons and 17 neutrons.

3) Give the number of protons for an atom with atomic number 17 and 18 neutrons.

4) Write the charge for an element with 20 protons and 17 neutrons.

5) Complete the table by identifying the element, atomic number, mass number, and number of protons, neutrons, and electrons.

Symbol	Protons	Neutrons	Electrons	Element
W	14	15	14	
B	5	5	5	
Q	9	10	9	
U	48	54	48	Kr
V	16	16	16	

6) Which two of the above would be examples of isotopes?

7) Explain the difference between "atomic mass" and "mass number".

8) Complete the table.

Symbol	Atomic Number	Mass Number	Number of Protons	Number of Neutrons	Number of Electrons
Li	3	7			
Ca	20	40			
Fe	26	56			
Br	35	80			

4	Arsenic	As	33	75	33	42	33
5	Iodine	I	53	127	53	74	53
6	Barium	Ba	56	137	56	81	56
7	Neon	Ne	10	20	10	10	10
8	Neon	Ne	10	21	10	11	10
9	Neon	Ne	10	22	10	12	10
10	Zinc	Zn	30	64	30	34	30
11	Magnesium	Mg	12	24	12	12	12
12	Carbon	C	6	12	6	6	6
13	Tin	Sn	50	119	50	69	50
14	Sulfur	S	16	32	16	16	16
15	Gold	Au	79	197	79	118	79
16	Phosphorus	P	15	31	15	16	15
17	Krypton	Kr	36	84	36	48	36
18	Potassium	K	19	39	19	20	19
19	Aluminum	Al	13	27	13	14	13
20	Mercury	Hg	80	200	80	120	80
21	Calcium	Ca	20	40	20	20	20
22	Fluorine	F	9	19	9	10	9

Atomic Structure
Counting Subatomic Particles
ANSWER SHEET

	Name of the Element	Symbol	Atomic Number Z	Mass Number A	Protons	Neutrons	Electrons
23	Silicon	Si	14	28	14	14	14
24	Lead	Pb	82	207	82	125	82
25	Tantalum	Ta	73	181	73	108	73
26	Sodium	Na	11	23	11	12	11
27	Astatine	At	85	(210)	85	125	85
28	Selenium	Se	34	79	34	45	34
29	Titanium	Ti	22	48	22	26	22

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Name _____ Class _____ Date _____
Chapter 4 Using Science Skills: Applying definitions

Atomic Structure

You can become more familiar with the atomic structure of some common substances by completing the chart below. For each substance, you have been given enough information to fill in all the blanks.

Substance	Symbol	Atomic Number	Mass Number	Number of Protons	Number of Neutrons	Number of Electrons
Helium	He	2	4			
Magnesium	Mg	12			12	
Zinc	Zn	30	65			
Bromine	Br		80			35
Aluminum	Al			13	14	
Uranium	U				146	92
Sodium	Na	11			12	
Krypton	Kr				48	36
Calcium	Ca		40	20		
Silver	Ag			47	61	

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