Name					
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Complete this assignment using pages 746 – 747 of the red Earth Science textbook.

Define the following:

Matter -

Energy -

Element -

Atom -

Electron -

Proton -

Neutron -

Isotope -

Atomic Number -

Period -

Group -

Use the following directions to identify the metals, metalloids, and nonmetals in the periodic table of elements on the back of this page.

- 1. Using a green colored pencil color in the boxes of the following elements with the atomic numbers:
  - a. 5, 14, 32, 33, 51, and 52
- 2. Use the same green colored pencil and label them as "METALLOIDS"
- 3. Use a yellow colored pencil color in the boxes of the following elements with the atomic numbers
  - a. 1, 2, 6, 7, 8, 9, 10, 15, 16, 17, 18, 34, 35, 36, 53, 54, 85, and 86
- 4. Use the same yellow colored pencil to label the elements as "NONMETALS"
- 5. Use a blue colored pencil color in the boxes of the rest of the elements
- 6. Use the same blue colored pencil and label the elements as "METALS"

proton, and neutron

Draw and label an atom. Label the nucleus, electron,



12.011

	_		7	o .		_	On .		4		ω			N			-					
Actinide Series	.anthani		87 <b>Fr</b> (223)	132.905 Cesium	S	Rubidium	85.468	37	Potassium	_	19	Sodium	Na	11	6.941 Lithium		ω	Hydrogen	1008	<b>C</b>	1A	-
	Lanthanide Series		Radium	137.328 Barium	Ba	Strontium	87.62	38	Calcium	Ca	20	Magnesium	DM	12	9.012 Beryllium	Ве	4	2A	2		4.07	
		1	103 <b>L</b> (262) Lawrencium	174.967 Lutetium	E:	Yttrium	88.906	< 39	Scandium Scandium	Sc	21	3B	ω					•				
Ac (227)	<b>La</b> 138.905 Lanthanum		104 <b>Rf</b> (267)	178.49 Hafnium	¥ ?	Zirconium	91.224	4 4	Titanium	=	22	48	4									
90 <b>Th</b>	Ce 140.116 Cerium	58	105 <b>Db</b> (268)	Tantalum	Ta	Niobium	92,906	41	Vanadium Vanadium	<	23	58	Oi							A		
91 <b>Pa</b> 231.036	Pr 140.908 Praseodymium	59	Seaborgium	183.84 Tungsten	×:	Molybdenum	96.96	42	Chromium	Ç	24	6B	6					Atomic mass	Symbol -	Atomic number		
92 <b>U</b> 238.029	Nex +	7 1	8h (272)	186.207 Rhenium	Re	Too	(98)	43	Manganese	Mn	25	7B	7			Г		_	9	-	1	
(237) <b>N</b> 93	Pro	61	108 <b>Hs</b> (270)	190.23 Osmium	SO S	D	101.07	4	lron	Fe	26		00			Silicon -	2	28.086	S	14		
94 (244)	Sm 150.36 Samarium	62	109 Mt (276)	192.217 Iridium	Ļ	Rhodium	102.906	45	Cobalt Cobalt	8	27	88	9			Name				5	1	
95 Am	Eu 151.964 Europium	83	DS (281)	195.085 Platinum	Pò	Palladium	106.42	46	Nickel	Z	28		10			ne en						
96 Cm	Gd 157.25 Gadolinium	64	Rg (280)	196.967 Gold	Au	Silver	107.868	47	Copper	5	29	18	1									
97 <b>BK</b>	<b>Tb</b> 158.925 Terbium	65	Mass nun the most	200.59 Meroury	Hg	Cadmium	112.412	2 &	Zinc Zinc	Zn	30	2B	12									
(251) Q 8	Dy 162.500 Dysprosium	66	110 111 DS Rg (281) (280) m Darmstadhum Raentgenium	204.383 Thallium	<b>=</b> :	Indium	114.818	49	Gallium	Ga	31	Aluminum	2	13	10.812 Baron	8	(O)	3A	13			
99 ES	# # _	67	entheses an	207.2 Lead	PB	3 1	118.711	50	Germanium	Ge	32	Silicon	Z.	2 5	12,011 Carbon	C	0	44	14			
(257)	167.259 Erbium	68	e those of isotope.	208.980 Bismuth	<b>©</b> 8	Antimony	121.760	51	Arsenic	AS	33	Phosphorus	τ	15	Nitrogen	Z	7	5A	15			
Md (258)	Tm 168.934 Thulium	69		(209) Polanium	Po	Tellunum	127.60	52	Selenium	Se	34	Sulfur	S.	16	0xygen	0	00	6A	16			
No (259)	<b>Yb</b> 173.055 Ytterbium	70		(210) Astatine	At 8	lodine	126.904	<b>-</b> 53	Bromine Bromine	Br	35	Chlorine	C C	17	18.998 Fluorine	П	9	7A	17		_===	
				(222) Radon	Rn	Xenon	131.294	<b>5</b> 4	Krypton	3	36	Argon	Ar	18	20.180 Neon	Ne	10	Helium	4003	5 2	8A	10