

Isotopes: Find the Message

Date: Name:

In the chart below, record the missing values and isotopes using a Periodic Table. Then, find the shape with the corresponding missing value or isotope and shade it in.

	Standard	Atomic	Atomic	Number of		Number of		
Isotope	Notation	Mass	Number	Protons	Neutrons	Electrons		
H-2								
	¹⁴ ₆ C							
		37	17					
				28	30			
					32	28		
				29	36			
Se-78								
	⁸⁶ ₃₆ Kr							
		79			44			
		81			46			
U-235								
		204			122			
		204			124			
				76	114			

							1				_					-: -:								- 1			_		
82	C-14	4				24		Os-11	4		3	Ge-72	2		39	Ti-46	•		Sn-1	14	75	Eu-1	52			Ni-60)	Os-1	190
	6		60		_				12		U-2	38		88	Zn-68			91						67			ln-11	.5	76
		15		H-1				186			Ne-	20				97	Nd-14	16				45	Xe	-134	Hg-	200		2	
235		38			Dy	/-162		208		11	Br-8	30		27			205	99	_		Se-8	0		10	S-34	1	34	98	
	CI-3	7	1			72	Br-8:	1		92		Cu-65	5				17	_		80	14							14	13
				100			41	77		33			Hg-	204			36					Kr-86	ô				21	73	
		93	Kr-8	2		94	Ni-58	8	86		4				44				61	35		7		H-3			Pb-2	06	
50				238			Ca-4	4		21		8		83			29				28		0-	18	9	31			19
20			78	Pb-20	4		B-10															235		65			C-12		
							-	191		66		58			144	-	190		5	Br-79)								



Isotopes: Find the Message

Date: Name: Solutions

In the chart below, record the missing values and isotopes using a Periodic Table. Then, find the shape with the corresponding missing value or isotope and shade it in.

Isotope	Standard	Atomic	Atomic	Number of	Number of	Number of		
isotope	Notation	Mass	Number	Protons	Neutrons	Electrons		
H-2	² ₁ H	2	1	1	1	1		
C-14	¹⁴ ₆ C	14	6	6	8	6		
Cl-37	³⁷ Cl	37	17	17	20	17		
Ni-58	58 28 Ni	58	28	28	30	28		
Ni-60	60 28 Ni	60	28	28	32	28		
Cu-65	65 29 Cu	65	29	29	36	29		
Se-78	⁷⁸ ₃₄ Se	78	34	34	44	34		
Kr-86	⁸⁶ ₃₆ Kr	86	36	36	50	36		
Br-79	⁷⁹ ₃₅ Br	79	35	35	44	35		
Br-81	81 35 Br	81	35	35	46	35		
U-235	²³⁵ U	235	92	92	143	92		
Pb-204	²⁰⁴ ₈₂ Pb	204	82	82	122	82		
Hg-204	²⁰⁴ ₈₀ Hg	204	80	80	124	80		
Os-190	¹⁹⁰ ₇₆ 0s	190	76	76	114	76		

