

Elements

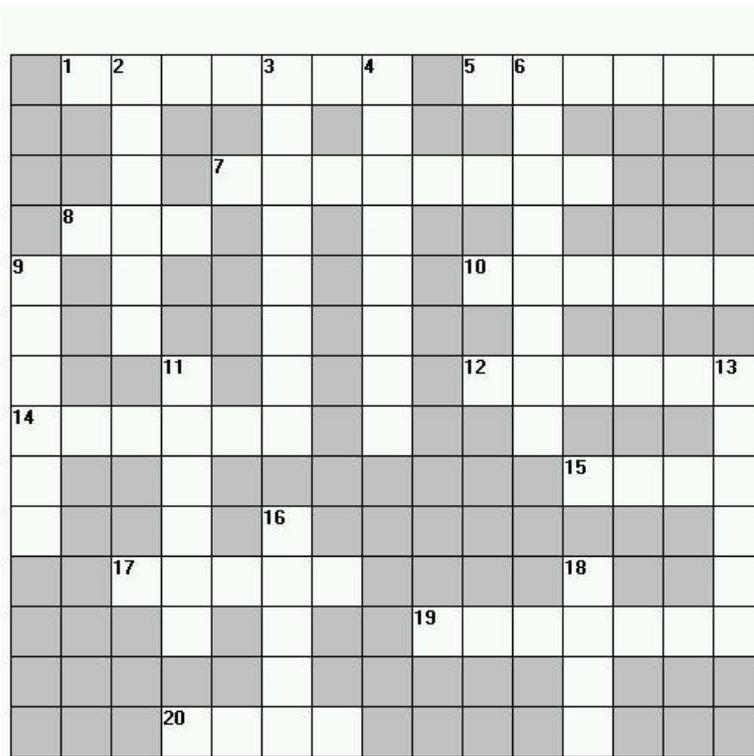
ACROSS

- 1 Name of an Island near Taiwan, a plateau in Bangalore, hills in Austin, and a valley near San Jose.
- 5 Almost certainly required for life to exist.
- 7 Metal used for some cancer therapy drugs.
- 8 Below 13°C this metal turns to powder. Napoleon's Grand Army froze to death retreating from Moscow in 1812 because the soldiers' buttons, made of this stuff, disintegrated.
- 10 *Tonto* is to *Scout* as *The Lone Ranger* is to _____.
- 12 Forms a -2 anion.
- 14 Has isotopes of mass 129, 131, 132, 133, and 134 (among others).
- 15 Transition metal.
- 17 Unreactive element.
- 19 Its isotope of atomic mass 90 is formed when Sr-90 emits beta particles (electrons).
- 20 Men need more of it than women.

DOWN

- 2 Forms a +3 cation.
- 3 German troops opened the valves to 5,730 cylinders of this deadly gas on April 22, 1915 against French and Algerian troops in Ypres, France, killing 5,000 and disabling 10,000.
- 4 German chemist Fritz Haber, who supervised the poison gas attack described in 3-Down, won a Nobel Prize in 1918 for his process that turns this component of air into plant fertilizer, thus boosting agricultural production for decades to come.

- 6 To clean pots made out of this metal, try stewing some rhubarb in them.
- 9 An alkali metal discovered by Robert Bunsen and Gustav Kirchoff in 1860.
- 11 Along with chromium, this metal is a major component of the alloy Nichrome.
- 13 This radioactive element, mixed with zinc sulfide, was once used to make glow-in-the-dark paint for wrist watches.
- 16 $1s^2 2s^2 2p^1$; this California town is the home of the Twenty Mule Team Museum.
- 18 Women need more of it than men.



Name _____ Class _____ Date _____

Elements

	¹ S	² I	L	I	³ C	O	⁴ N		⁵ C	⁶ A	R	B	O	N
		N			H		I			L				
		D		⁷ P	L	A	T	I	N	U	M			
	⁸ T	I	N		O		R			M				
⁹ C		U			R		O		¹⁰ S	I	L	V	E	R
E	M			I		G			N					
S			¹¹ N		N		E		¹² S	U	L	F	U	¹³ R
¹⁴ I	O	D	I	N	E		N			M				A
U			C								¹⁵ G	O	L	D
M			K		¹⁶ B									I
		¹⁷ X	E	N	O	N				¹⁸ I				U
			L		R			¹⁹ Y	T	T	R	I	U	M
					O						O			
			²⁰ Z	I	N	C					N			