

An understanding minicrostic

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No prize this time. Answers are on page 16.

Start by answering as many clues as possible. (Even if you can answer only a quarter of the clues, your chances of completing the crostic are very good.) Semi-colons in some clues are used to separate alternative clues for the same answer. Next, transfer these letters to the correspondingly numbered squares in the grid. This begins the spelling out of the quotation, reading from left to right, with black squares separating the words. (Words may spill over to the next row; punctuation marks are not included.) As you proceed, words and phrases begin forming in the quotation; working back and forth between the grid and the clue words, you can complete the puzzle.

To aid you further, note that the first letters of the clue answers spell out either or both the author and the source of the quotation. One letter is given, in answer K.

Clues (numbers in parentheses indicate number of words)

A Official in a sporting match 61 16 76 31 18 42 4

B Footwear for glaciers? 21 84 65 67 44 8 34 1

C Flow of water, electricity, etc. 2 28 78 69 23 39 80

D Magnetic property of, e.g., some iron complexes 15 51 40 54 - 13 81 38 72

E Insult 83 9 27 66 57 29 73

F Cereal; alcoholic beverage 45 47 11

G Scatter; widely spread 37 3 43 10 49 79 25

H Possible ranch name or hockey shirt designation (2) 30 48 58 41 22 52 68

I In electrolysis where Cl^- or Br^- would migrate to 35 5 26 50 46

J Word with atomic or equivalent 53 60 71 24 74 14

K Degree type! K 62 82 64 19 36

L Cold 77 6 55

M Cool; jumpy 70 7 32 20 56

N Brush; soccer position 33 59 63 85 17 75 12 ■

1	B	2	C	3	G	4	A	5	I	6	L	7	M		8	B	9	E	10	G	11	F	12	N	13	D		14	J	15	D	16	A		17	N	18	A	19	K	20	M	21	B			
22	H	23	C	24	J	25	G		26	I	27	E		28	C	29	E	30	H	31	A	32	M	33	N	34	B	35	I	36	K	37	G	38	D	39	C	40	D		41	H	42	A			
43	G	44	B	45	F	46	I		47	F	48	H	49	G		50	I	51	D	52	H		53	J	54	D	55	L		56	M	57	E	58	H		59	N	60	J	61	A					
62	K		63	N	64	K	65	B	66	E		67	B	68	H	69	C	70	M		71	J	72	D		73	E	74	J	75	N		76	A	77	L	78	C	79	G	80	C					
	81	D	82	K	83	E	84	B	85	N																																					

Motivating ideas

Devise chemical prizes

Use a gold spray-painted test tubes or a golden scoopula to reward achievement or, if your students can take a joke, to commemorate the most glassware broken or the most fouled-up lab results. Present the B. Kerr Award (a 1-mL beaker from time to time. (*This was one of George R. Hague's ideas from the February 1980 issue of Chem 13 News – adapted from the New Jersey Science Teachers Association, Bulletin in 1978.*)

Review with chemistry BINGO

You will need blank bingo cards and an overhead. For each BINGO letter have about 10 questions/answers, for example, formulas and names. Then on an overhead write out the 10

answers for each column. Give students the blank BINGO cards and let the students fill in each column. This will save you time. Your call cards will have the questions. Don't forget to check for false BINGOs.

BINGO is great for nomenclature review. You can have different categories under each letter, i.e., formulas, binary compounds, polyatomic ions, etc. Play BINGO with any chemistry topic for review. With the overhead made and call cards ready, you can reuse this each year. It is surprising how much the students enjoy the game. Get students to take turns being the Caller. And don't forget the prizes — posters or periodic tables. (Candy prizes are also a big motivator.) ■