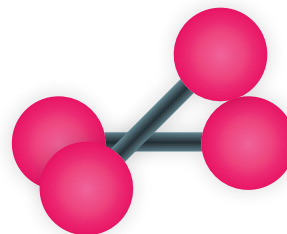


## Puzzle

# Pumping Iron

Give your knowledge of chemistry a workout. Write the answers to each of the clues in the spaces provided. Then transfer the letters in the numbered spaces to the corresponding space at the bottom of the page. If you do it correctly, you'll get an appropriate joke... and maybe a few reps for your diaphragm.



Element 74, once ...

1	19		47	50	12	27

...and its current name (and symbol):

							(		)
29			25		36			10	

2017 ACS President (two words):

14			5	51	21	58		15	31	42		38	11	53

Titration glassware:

45	54		9	33	

-270.15°C, absolutely (two words):

	8		24		13				56	32	

Reaction that converts ketones to alkenes:

30	28	55	7	16	18

The most electronegative element:

48		46	52				43

Gas to liquid phase change:

40	57		4	49			44	22		41			

sp<sup>3</sup>, for one (2 words):

23	3					37				20			

Water, chemically speaking (two words):

6		2	26	35			39						17	34

## Answer

1	2	3		4	5	6		7	8	9		10	11	12
13		14	15	16	17		18	19		20	21		22	23
24		25	26	27	?	28	29		30	31	32	33	34	35
	36	37		38	39	40	41	42	43		44		45	46
47	48	49	50		51	52	53	54	55	56	57	58		



To check your answers, visit [inchemistry.acs.org](http://inchemistry.acs.org)