

**American Chemical Society Division of Chemical Education
Composite Norms
Diagnostic of Undergraduate Chemistry Knowledge 2018 (DUCK18)**

Score	Percentile	Score	Percentile	Score	Percentile
60	100	37	70	14	0
59	100	36	67	13	0
58	100	35	63	12	0
57	100	34	58	11	0
56	100	33	54	10	0
55	100	32	51	9	0
54	100	31	46	8	0
53	100	30	41	7	0
52	99	29	36	6	0
51	99	28	31	5	0
50	98	27	26	4	0
49	98	26	22	3	0
48	97	25	19	2	0
47	96	24	15	1	0
46	95	23	11	0	0
45	94	22	8		
44	92	21	6		
43	90	20	4		
42	88	19	3		
41	85	18	2		
40	82	17	2		
39	79	16	1		
38	74	15	0		

Mean	32.5
Std. deviation	7.8
Median	32
KR-21 reliability	0.77
Std error/meas	3.76

DUCK18 Norms
based on the scores of 444 students from 20 institutions

