

**American Chemical Society Division of Chemical Education
Composite Norms – 2018 Toledo Placement Exam (TP18)**

Score	Percentile	Score	Percentile	Score	Percentile
60	100	37	76	14	1
59	100	36	72	13	0
58	100	35	66	12	0
57	100	34	62	11	0
56	100	33	56	10	0
55	100	32	51	9	0
54	100	31	46	8	0
53	100	30	41	7	0
52	100	29	35	6	0
51	99	28	31	5	0
50	99	27	27	4	0
49	98	26	24	3	0
48	98	25	21	2	0
47	97	24	18	1	0
46	97	23	15	0	0
45	96	22	11		
44	94	21	8	Mean	31.1
43	93	20	7	Std. deviation	7.8
42	91	19	5	Median	31
41	89	18	4	KR-21 reliability	0.77
40	86	17	3	Std error/meas	3.8
39	84	16	2		
38	81	15	1		

TP18 Norm
based on the scores of 624 students from 8 different institutions

