



ANSWER GUIDE FOR THE SELF-ASSESSMENT READINESS CHECK FOR THE CHEMISTRY PLACEMENT EXAM

Version 1.3

Directions: Use the following guide to score your Self-Assessment test. The chart here also provides hints as to the particular areas of chemistry that might be reviewed to increase your readiness for college chemistry based on those questions that you missed.

While success in passing the Chemistry Placement Examination does not depend on mastery of every skill area represented in this chart, students with significant prior exposure to these concepts and skills tend to score highest on the Chemistry Placement Examination, and tend to make the most successful transition to the study of chemistry at the college level.

Question Number	Answer	Skills Tested
1	B	Concept of weight and mass.
2	D	Chemical and physical changes.
3	A	Classification of matter.
4	A	Classification of matter.
5	C	Metric system.
6	C	Scientific notation.
7	B	Significant Figures.
8	C	Temperature scales.
9	C	Thermodynamics, enthalpy, and phase changes.
10	B	Phase changes.
11	D	Volume and mass percents. Density.
12	A	Density.
13	B	Phase changes, heats of fusion, vaporization.
14	C	Atomic theory.
15	D	Isotopes, atomic theory.
16	A	Periodic table, atomic theory.
17	D	Radioactivity, half lives.
18	B	Radioactivity, half lives.
19	D	Periodic table.
20	B	Periodic table, electron configurations.
21	B	Periodic table.
22	B	Atomic theory, electron orbitals.
23	C	Periodic table.
24	C	Electron Configurations.
25	B	Electron Configurations.
26	B	Periodic table.
27	D	Periodic table.
28	A	Phase diagrams, phase changes.
29	D	Phase diagrams, phase changes.
30	D	Electron Configurations.
31	D	Naming compounds.
32	D	Periodic table.
33	C	Chemical bonding.
34	D	Periodic table.
35	A	Lewis dot structures, geometry, dipole moments.
36	A	Naming compounds.
37	D	Geometry, dipole moments.
38	B	Balancing Reactions, Stoichiometry.

39	A	Redox Reactions.
40	D	Naming compounds.
41	C	Stoichiometry.
42	B	Stoichiometry, mole concept.
43	C	Stoichiometry, mole concept, limiting reactant.
44	C	Balancing Reactions.
45	C	Intermolecular forces.
46	B	Naming compounds.
47	A	Gas laws.
48	A	Gas laws.
49	B	Gas laws.
50	B	Partial Pressure concept.
51	C	Nomenclature of solutions.
52	A	Thermodynamics.
53	A	Molarity.
54	D	Molarity, Stoichiometry.
55	A	Molarity.
56	C	Solubility.