

Test Design Blueprint

Date 10-15-2014

Physical Science

2003310

10-12

Course Title

Course Number

Grade(s)

Main Idea (Big Idea/Domain/Strand/Standard)	Standard Code	Percent of Test Based on Time Devoted to Standard	Number of Test Questions (60 total)
Globalism & Creativity in Science	SC.912.N.1.5, SC.912.N.1.7, SC.912.N.2.5	2%	1 (.02 X 60 = 1.2)
Speed of light in vacuum is fastest	SC. 912.P.12.7	3%	2 (.03 X 60 = 1.8)
Doppler Effect: shift in frequency	SC. 912.P.10.21	2%	1 (.02 X 60 = 1.2)
Scientific Knowledge Changes	SC. 912.N.2.4	2%	1 (.02 X 60 = 1.2)
Scientific Theory = best explanation from many sources	SC. 912.N.3.1 & SC. 912.N.3.2	1%	1 (.01 X 60 = 0.6)
Matter/ Energy move in Cycles	SC. 912.E.7.1	5%	3 (.05 X 60 = 3)
Sci Laws describe relationships & do not stem from Theories	SC. 912.N.3.3 & SC. 912.N.3.4	1%	1 (.01 X 60 = 0.6)
Photosynthesis parts/ purpose	SC. 912.L.18.7	2%	1 (.02 X 60 = 1.2)
Cellular Respiration parts/ purpose	SC. 912.L.18.8	2%	1 (.02 X 60 = 1.2)
Science Effects Society's Choices & Cost vs. Benefit	SC. 912.N.4.1 & SC. 912.N.4.2	1%	1 (.01 X 60 = 0.6)
Importance of & Interpret Models	SC. 912.N.1.6 & SC. 912.N.3.5	5%	3 (.05 X 60 = 3)
Special Properties of Water	SC. 912.L.18.12	2%	1 (.02 X 60 = 1.2)
Limitations of/ Pseudo- Science	SC. 912.N.2.1, SC. 912.N.2.2, SC. 912.N.2.3	2%	1 (.02 X 60 = 1.2)
Phys vs. Chem Properties/ Changes	SC. 912.P.8.2	4%	2 (.04 X 60 = 2.4)
Phase Transitions at Molecular Level	SC. 912.P.12.11	2%	1 (.02 X 60 = 1.2)
Forms of energy/ can transform	SC. 912.P.10.1	3%	2 (.03 X 60 = 1.8)
Relate Temperature to Average Kinetic Molecular Energy	SC. 912.P.10.5	3%	2 (.03 X 60 = 1.8)
States of Matter	SC. 912.P.8.1	4%	2 (.04 X 60 = 2.4)
Endothermic vs. Exothermic	SC. 912.P.10.7	3%	2 (.03 X 60 = 1.8)
Heat = energy transferred	SC. 912.P.10.4	3%	2 (.03 X 60 = 1.8)
Detail Subatomic Particles	SC. 912.P.8.4	4%	2 (.04 X 60 = 2.4)

Periodic Table Trends	SC. 912.P.8.5	4%	2 (.04 X 60 = 2.4)
Chemical vs. Nuclear Reactions	SC. 912.P.10.12	1%	1 (.01 X 60 = 0.6)
Electromagnetism: wavelength/ frequency/ energy	SC. 912.P.10.18	1%	1 (.01 X 60 = 0.6)
Write Chemical Formulas	SC. 912.P.8.7	3%	2 (.03 X 60 = 1.8)
Reaction Rate Variables: temp/ catalyst/ concentration	SC. 912.P.12.12	1%	1 (.01 X 60 = 0.6)
Acid vs. Base	SC. 912.P.8.11	1%	1 (.01 X 60 = 0.6)
Classify Reaction Types	SC. 912.P.8.8	1%	1 (.01 X 60 = 0.6)
Ideal Gases at Molecular Level	SC. 912.P.12.10	3%	2 (.03 X 60 = 1.8)
Laws of Gravitational Force	SC. 912.P.12.4	4%	2 (.04 X 60 = 2.4)
Evaluate Claims & Source Reliability	SC.912.N.1.3 & SC.912.N.1.4	2%	1 (.02 X 60 = 1.2)
Relate current/ volt/ resistance/ power	SC.912.P.10.15	3%	2 (.03 X 60 = 1.8)
Conductors/ Semi/ Insulation	SC. 912.P.10.14	3%	2 (.03 X 60 = 1.8)
Motion: position/ veloc/ acceleration	SC. 912.P.12.2	4%	2 (.04 X 60 = 2.4)
Motion: Apply Newton's 3 Laws	SC. 912.P.12.3	4%	2 (.04 X 60 = 2.4)
Work vs. Power	SC. 912.P.10.3	3%	2 (.03 X 60 = 1.8)
Compare the 4 Fundamental Forces: gravity/ electromag/ weak nuclear /strong nuclear	SC. 912.P.10.10	2%	1 (.02 X 60 = 1.2)
Apply / Characterize Scientific Methods	SC. 912.N.1.1 & SC.912.N.1.2	4%	2 (.04 X 60 = 2.4)
TOTALS		100 %	60

List All Common Course Teachers:

Josh McCall