

STEM 101 - Chemistry 101

NGSS/NM STEM Ready

Domain	Disciplinary Core Ideas	Performance Expectation
Physical Science	Structures and Properties of Matter	5-PS1-1,5-PS1-3,5-PS1-4,MS-PS1-1,MS-PS1-3, MS-PS1-4
Engineering, Technology, and Application of Science	Engineering Design	3-5-ETS1-1,3-5-ETS1-2,3-5-ETS1-3,MS-ETS1-3, MS-ETS1-4

NGSS Crosscutting Concepts

Cause and effect relationships are routinely identified, tested, and used to explain change.	5-PS1-4
Natural objects exist from the very small to the immensely large.	5-PS1-1
Cause and effect relationships may be used to predict phenomena in natural or designed systems.	MS-PS1-4
Structures can be designed to serve particular functions by taking into account properties of different materials, and how materials can be shaped and used.	MS-PS1-3
Influence of Engineering, Technology, and Science on Society and the Natural World-People's needs and wants change over time, as do their demands for new and improved technologies.	3-5-ETS1-1
Engineers improve existing technologies or develop new ones to increase their benefits, decrease known risks, and meet societal demands.	3-5-ETS1-2

Common Core Math

Domain	Standard
Operations and Algebraic Thinking	CCSS.Math.Content.5.NBT.A.3,CCSS.Math.Content.5.NBT.A.4,CCSS.Math.Content.5.NBT.B.6,CCSS.Math.Content.5.NBT.B.7,CCSS.Math.Content.3.OA.A.1,CCSS.Math.Content.3.OA.A.2,CCSS.Math.Content.3.OA.A.3,CCSS.Math.Content.3.OA.C.7,CCSS.Math.Content.4.OA.A.2,CCSS.Math.Content.4.OA.A.3
Numbers and Operations in Base Ten	CCSS.Math.Content.3.NBT.A.2,CCSS.Math.Content.4.NBT.B.5,CCSS.Math.Content.4.NBT.B.6,CCSS.Math.Content.5.NBT.B.6
Numbers and Operations- Fraction	CCSS.Math.Content.3.NF.A.1,CCSS.Math.Content.5.NF.B.3,CCSS.Math.Content.5.NF.B.6
Measurement and Data	CCSS.Math.Content.4.MD.A.1, CCSS.Math.Content.4.MD.A.2
Ratios and Proportional Relationships	CCSS.Math.Content.6.RP.A.3.c,CCSS.Math.Content.6.RP.A.3.d,CCSS.Math.Content.7.RP.A.2.c
The Number System	CCSS.Math.Content.6.EE.A.2, CCSS.Math.Content.6.EE.B.5,CCSS.Math.Content.6.EE.B.6,CCSS.Math.Content.6.EE.B.7,CCSS.Math.Content.7.EE.B.4

Expressions and Equations	CCSS.Math.Content.7.EE.B.3,CCSS.Math.Content.7.EE.B.4
Statistics and Probability	CCSS.Math.Content.6.SP.B.5
Common Core English Language Arts	
Strand	Standard
Writing	CCSS.ELA-Literacy.W.3.2,CCSS.ELA-Literacy.W.3.6,CCSS.ELA-Literacy.W.3.7,CCSS.ELA-Literacy.W.4.2,CCSS.ELA-Literacy.W.4.6,CCSS.ELA-Literacy.W.4.7,CCSS.ELA-Literacy.W.5.6,CCSS.ELA-Literacy.W.5.7, CCSS.ELA-Literacy.W.6.1,CCSS.ELA-Literacy.W.6.6,CCSS.ELA-Literacy.W.6.7,CCSS.ELA-Literacy.W.7.1,CCSS.ELA-Literacy.W.7.6,CCSS.ELA-Literacy.W.7.7,CCSS.ELA-Literacy.W.8.1,CCSS.ELA-Literacy.W.8.6,CCSS.ELA-Literacy.W.8.7
History/Social Studies Science in Technical Subjects	CCSS.ELA-Literacy.RST.6-8.3,CCSS.ELA-Literacy.RST.6-8.4