

# STEM 101 - Technology 101

## NGSS/NM STEM Ready

Domain	Disciplinary Core Ideas	Performance Expectation
Physical Sciences	Waves and their Applications in Technologies for Information Transfer	4-PS3-2, 4-PS4-1, 4-PS4-3, MS-PS4-1, MS-PS4-2, MS-PS4-3
Earth	Earth's Place in the Universe	5-ESS1-1
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

Patterns of change can be used to make predictions.	4-PS4-1, 4-PS4-3, MS-PS4-1
Cause and effect relationships are routinely identified.	4-PS4-1, 4-PS4-3
Scale, Proportion, and Quantity	5-ESS1-1
Energy can be transferred in various ways and between Objects	4-PS3-2
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.3.OA.A.2, CCSS.Math.Content.3.OA.A.3, CCSS.Math.Content.3.OA.A.4, CCSS.Math.Content.3.OA.B.5, CCSS.Math.Content.3.OA.B.6, CCSS.Math.Content.3.OA.C.7, CCSS.Math.Content.3.OA.D.8, CCSS.Math.Content.4.OA.A.2
Numbers and Operations in Base Ten	CCSS.Math.Content.4.NBT.B.4, CCSS.Math.Content.4.NBT.B.5, CCSS.Math.Content.4.NBT.B.6, CCSS.Math.Content.5.NBT.B.5
Numbers and Operations- Fraction	CCSS.Math.Content.3.NF.A.1, CCSS.Math.Content.4.NF.A.2, CCSS.Math.Content.4.NF.B.4, CCSS.Math.Content.5.NF.B.3, CCSS.Math.Content.5.NF.B.4, CCSS.Math.Content.5.NF.B.5.a
Measurement and Data	CCSS.Math.Content.3.MD.C.5, CCSS.Math.Content.4.MD.A.2
Ratios and Proportional Relationships	CCSS.Math.Content.6.RP.A.1, CCSS.Math.Content.6.RP.A.2, CCSS.Math.Content.7.RP.A.2
The Number System	CCSS.Math.Content.6.NS.B.2, CCSS.Math.Content.7.NS.A.2
Expressions and Equations	CCSS.Math.Content.6.EE.A.2, CCSS.Math.Content.6.EE.B.5, CCSS.Math.Content.6.EE.B.6, CCSS.Math.Content.7.EE.A.2, CCSS.Math.Content.7.EE.B.3, CCSS.Math.Content.7.EE.B.4, CCSS.Math.Content.8.EE.C.7
Geometry	CCSS.Math.Content.7.G.B.6, CCSS.Math.Content.8.G.A.2, CCSS.Math.Content.8.G.A.4

## 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