Prioritized Curriculum Standards

7th Grade

MATH	
Content/Measurement Topic	NAD Standard (CCSSM)
Signed Numbers and Absolute Value • **7.SNAV1** - Solve problems using the properties of additive inverses.	7.NO.1 (7.NS.1,2,3)
• **7.SNAV2** - Multiply and divide signed numbers. - Signed Numbers and Absolute Value	7.OAT.1 (7.EE.1,2)
• **7.SNAV3** - Solve problems involving absolute values, including problems with real-world contexts.	7.NO.1 (7.NS.1,2,3)
Converting Fractions, Decimals, and Percentages • **7.CFDP1** - Convert numbers in decimal form to simplified fractions.	
• **7.CFDP2** - Use long division to convert fractions to decimal form.	
• **7.CFDP3** - Convert between decimal form and percentages.	
Linear Equations • **7.LE1** - Compare arithmetic solutions to algebraic solutions for problems involving one- and two-step linear equations.	
• **7.LE2** - Solve problems involving linear equations in two variables.	7.OAT.2 (7.EE.3,4)
• **7.LE3** - Graph the ordered pairs that result from evaluating linear equations in two variables.	7.OAT.3
Proportional Relationships • **7.PR1** - Identify proportional relationships from sets of bivariate data.	7.NO.4 (7.RP.1,2,3)
• **7.PR2** - Identify proportional relationships from graphs.	7.NO.4 (7.RP.1,2,3)
• **7.PR3** - Write equations that represent proportional relationships to solve multistep ratio and percent problems.	7.NO.4 (7.RP.1,2,3)
Inequalities • **7.I1** - Solve word problems involving multistep inequalities and describe the solution set in terms of the context.	7.OAT.2 (7.EE.3,4)
• **7.I2** - Graph the solution set of a multistep inequality on a number line.	7.OAT.3

Area and Volume • **7.AV1** - Solve problems using the area formulas for various polygonal figures.	7.GEO.2 (7.G.4,5,6)
• **7.AV2** - Solve problems involving the surface area of polyhedra.	7.GEO.2 (7.G.4,5,6)
• **7.AV3** - Solve problems using the volume formula for right prisms.	7.GEO.2 (7.G.4,5,6)
Analyzing Geometric Figures • **7.AGF1** - Describe the three-dimensional figures that result from manipulating two-dimensional figures.	7.GEO.1 (7.G.1,2,3)
• **7.AGF2** - Describe the two-dimensional figures that result from slicing three-dimensional figures.	7.GEO.1 (7.G.1,2,3)
Transformations of Geometric Figures • **7.TGF1** - Transform geometric figures, including by graphing vertices.	
• **7.TGF2** - Scale geometric figures by computing and drawing measurements.	7.GEO.1 (7.G.1,2,3)
Angle Relationships • **7.AR1** - Use the relationships between complementary and supplementary angles to determine unknown angle measures.	7.GEO.2 (7.G.4,5,6)
• **7.AR2** - Use the relationship between vertical angles to determine unknown angle measures.	7.GEO.2 (7.G.4,5,6)
Constructing Triangles • **7.CT1** - Construct possible triangles from given angle measures.	7.GEO.1 (7.G.1,2,3)
• **7.CT2** - Construct possible triangles from three given side lengths.	7.GEO.1 (7.G.1,2,3)
Circles • **7.C1** - Approximate the value of the constant pi using the relationship between the diameter and circumference of a circle.	
• **7.C2** - Solve problems using the formula for the circumference of a circle.	
• **7.C3** - Solve problems using the formula for the area of a circle.	7.GEO.2 (7.G.4,5,6)
Comparing Distributions • **7.CD1** - Compare data sets using measures of central tendency and variability.	7.DSP.2 (7.SP.3,4)
• **7.CD2** - Make comparative inferences about separate populations based on numerical data from random samples.	7.DSP.2 (7.SP.3,4)
Representative Samples • **7.RS1** - Make inferences about a population based on a sample.	7.DSP.1 (7.SP.1,2)
• **7.RS2** - Gauge the accuracy of inferences about a population by generating multiple samples.	7.DSP.1 (7.SP.1,2)

Simple Probability Models	
• **7.SPM1** - Develop simple uniform theoretical probability models.	7.DSP.3 (7.SP.5,6,7,8)
• **7.SPM2** - Develop simple probability models from observed experiments.	7.DSP.3 (7.SP.5,6,7,8)
• **7.SPM3** - Compare the observed results of an experiment to those predicted by a probability model.	7.DSP.3 (7.SP.5,6,7,8)
Probability of Compound Events	
• **7.PCE1**- Calculate the probability of compound events from a representation of the sample space.	7.DSP.3 (7.SP.5,6,7,8)
• **7.PCE2** - Calculate the probability of compound events using simulation.	7.DSP.3 (7.SP.5,6,7,8)

ELA	
Content/Measurement Topic	NAD Standard (CCSSELA)
Analyzing Text Organization and Structure	
• **7.ATOS1** - Explain how the structure of a nonfiction text contributes to its meaning	LA.7.RI.5 (RI.7.5)
• **7.ATOS2** - Explain how the structure of a story or drama contributes to its meaning	LA.7.RL.5 (RL.7.5)
• **7.ATOS3** - Explain how the structure of a poem contributes to its meaning	LA.7.RL.5 (RL.7.5)
Analyzing Ideas and Themes	
• **7.AIT1** - Describe how a main idea develops over the course of a text	LA.7.RL.1 (RL.7.1)
• **7.AIT2** - Describe how a theme develops over the course of a text	LA.7.RL.2 (RL.7.2)
	LA.7.RI.1 (RI.7.1)
	LA.7.RI.2 (RI.7.2)
	LA.7.SL.2 (SL.7.2)
Analyzing Claims, Evidence, and Reasoning	
• **7.ACER1** - Trace an argument and its claims	LA.7.RI.8 (RI.7.8)
• **7.ACER2** - Evaluate the relevance and sufficiency of evidence	LA.7.SL.3 (SL.7.3)
• **7.ACER3** - Evaluate the soundness of an author's reasoning	LA.7.RI.8 (RI.7.8)

Analyzing Narratives • **7.AN1** - Analyze how the elements in a narrative text interact	LA.7.RL.3 (RL.7.3)
• **7.AN2** - Analyze how characters' or narrators' points of view are developed and contrasted in a narrative text	LA.7.RL.6 (RL.7.6)
• **7.AN3** - Explain how tone and mood are developed through word choice in a narrative text	LA.7.RI.3 (RI.7.3)
Analyzing Point of View • **7.APV1** - Explain how an author distinguishes his or her point of view from the position of others	LA.7.RI.6 (RI.7.6)
Comparing Texts • **7.CT1** - Compare the portrayal of the same topic or text in different media	LA.7.RL.7 (RL.7.7)
• **7.CT2** - Compare a fictional account to a historical account of the same period	LA.7.RL.8 (RL.7.9)
• **7.CT3** - Compare the techniques and evidence two authors use to present their perspectives on the same topic	LA.7.RI.7 (RI.7.7) LA.7.RI.9 (RI.7.9)
Analyzing Language • **7.AL1** - Explain how the connotative meanings of words and phrases impact a text's tone, mood, or theme(s)	LA.7.RL.4 (RL.7.4)
• **7.AL2** - Explain how figurative language impacts a text's tone, mood, or theme(s)	LA.7.RI.4 (RI.7.4) LA.7.L.4 (L.7.4)
Generating Text Organization and Structure • **7.GTOS1** - Write an introduction appropriate to the text structure of a text	LA.7.W.1 (W.7.1)
• **7.GTOS2** - Select a specific text structure to organize writing	LA.7.W.2 (W.7.2)
• **7.GTOS3** - Use transitions to clarify relationships among ideas	LA.7.W.3 (W.7.3)
• **7.GTOS4** - Write a conclusion appropriate to the text structure of a text	LA.7.W.3 (W.7.3)
Generating Claims, Evidence, and Reasoning • **7.GCER1** - Generate claims with logical reasoning to support them	LA.7.W.1 (W.7.1)
• **7.GCER2** - Support claims and reasons with evidence	LA.7.SL.1 (SL.7.1)
• **7.GCER3** - Acknowledge counterclaims	LA.7.SL.4 (SL.7.4)

Sources and Research • **7.SR1** - Use print and digital sources to answer a research question	LA.7.RI.12
• **7.SR2** - Assess the credibility and accuracy of sources	LA.7.W.1 (W.7.1)
• **7.SR3** - Cite sources when quoting or paraphrasing the data or conclusions of others	LA.7.W.2 (W.7.2)
	LA.7.W.8 (W.7.7)
	LA.7.W.9 (W.7.8)
	LA.7.W.10 (W.7.9)
Generating Narratives • **7.GN1** - Establish and use a consistent point of view in a narrative	LA.7.W.3 (W.7.3)
• **7.GN2** - Create structured event sequences that logically and naturally relay the events of a narrative	LA.7.W.3 (W.7.3)
Audience, Purpose, and Task • **7.APT1** - Select the most appropriate purpose for a specific task	LA.7.W.1 (W.7.1)
• **7.APT2** - Select the most appropriate audience for a specific task	LA.7.W.2 (W.7.2)
• **7.APT3** - Use a style and tone appropriate to a specific task	LA.7.W.5 (W.7.4)
	LA.7.W.11 (W.7.10)
Revision • **7.R1** - Revise writing so that word choice is clear, precise, and appropriate for the style of the text	LA.7.W.6 (W.7.5)
• **7.R2** - Revise writing by removing redundancy or extraneous information	LA.7.SL.6 (SL.7.6)
• **7.R3** - Revise writing for a specific audience and purpose	LA.7.L.3 (L.7.3)
Editing • **7.00E+01** - Edit for grammar	LA.7.W.6 (W.7.5)
• **7.00E+02** - Edit for syntax	LA.7.L.1 (L.7.1)
• **7.00E+03** - Edit for capitalization	LA.7.L.2 (L.7.2)
• **7.00E+04** - Edit for punctuation	LA.7.L.2 (L.7.2)
• **7.00E+05** - Edit for spelling	LA.7.L.2 (L.7.2)

SCIENCE	
Content/Measurement Topic	NAD Standards (NGSS)
Organism Structure and Function • **7.OSF1** - Explain how the parts of a cell contribute to its function • **7.OSF2** - Explain how the body is organized into specialized subsystems	S.6-8.LS.1 (MS-LS1-1) S.6-8.LS.2 (MS-LS1-2) S.6-8.LS.3 (MS-LS1-3)
Organism Traits • **7.OT1** - Explain how genes determine which traits are expressed by organisms • **7.OT3** - Explain how human technologies can influence the inheritance of desired traits in organisms	S.6-8.LS.5 (MS-LS1-5) S.6-8.LS.14 (MS-LS3-1) S.6-8.LS.19 (MS-LS4-5) S.6-8.HS.1
Matter and Energy in Ecosystems • **7.MEE1** - Explain how matter cycles and energy flows through the living and nonliving parts of an ecosystem • **7.MEE2** - Explain how interactions between living and nonliving parts of an ecosystem provide specific services that are of value to humans	S.6-8.LS.11 (MS-LS2-3) S.6-8.LS.13 (MS-LS2-5)
Health Promotion and Disease Prevention • **7.HS4** - Construct an evidenced-based argument that demonstrates the importance of assuming responsibility for personal health behaviors • **7.HS5** - Evaluate behaviors in relation to the degree to which they benefit or harm personal health and the health of others	S.6-8.HS.4 S.6-8.HS.5
Health Promotion and Disease Prevention Health Resources • **7.HS3** - Gather and synthesize information to identify barriers to obtaining appropriate health care and to practicing healthy behaviors, and suggest ways to overcome these barriers • **7.HS7** - Conduct an investigation designed to assess the validity of health-related resources	S.6-8.HS.3 S.6-8.HS.7

Healthy Lifestyle Choices • **7.HS1** - Collect data from family members to compile evidence that	S.6-8.HS.1
• **7.HS11** - Analyze and interpret data that provides evidence to support the claim that traditional Adventist health practices promote optimal health	S.6-8.HS.11
• **7.HS9** - Plan and conduct an investigation that provides evidence that peers and perceptions of norms influence the health of adolescents	S.6-8.HS.9
• **7.HS10** - Construct a model that demonstrates how public health policies can influence health promotion and disease prevention	S.6-8.HS.10
Celestial Motion • **7.CM1** - Explain the cyclic nature of lunar phases using a model of the Earth, sun, and moon	S.6-8.ES.12 (MS-ESS1-1)
• **7.CM2** - Explain the cyclic nature of eclipses using a model of the Earth, sun, and moon	S.6-8.ES.12 (MS-ESS1-1)
• **7.CM3** - Explain the cyclic nature of the seasons using a model of the Earth and sun	S.6-8.ES.12 (MS-ESS1-1)
Celestial Objects • **7.CO1** - Describe characteristics of objects within the universe	S.6-8.ES.14 (MS-ESS1-3)
• **7.CO2** - Describe the scale of objects within the solar system	S.6-8.ES.14 (MS-ESS1-3)
Gravity • **7.G1** - Relate the strength of the attractional force of gravity to the masses of and distance between interacting objects	S.6-8.PS.10 (MS-PS2-4)
• **7.G2** - Explain how gravity affects objects in the solar system	S.6-8.ES.13 (MS-ESS1-3)
• **7.G3** - Explain how the gravitational force between the Earth and the moon creates tides	
Energy • **7.00E+01** - Explain factors that change the average potential energy of an object	S.6-8.PS.12 (MS-PS3-1)
• **7.00E+02** - Explain factors that change the average kinetic energy of an object	S.6-8.PS.13 (MS-PS3-2)
• **7.00E+03** - Explain how energy converts between kinetic and potential energy	S.6-8.PS.16 (MS-PS3-5)

Energy Transfer • **7.ET1** - Explain changes in particle motion when thermal energy is changed	S.6-8.PS.4 (MS-PS1-4)
• **7.ET2** - Explain how to minimize or maximize energy transfer	S.6-8.PS.14 (MS-PS3-3) S.6-8.PS.15 (MS-PS3-4)
Motion • **7.M1** - Explain factors that change an object's motion	S.6-8.PS.7 (MS-PS2-1)
• **7.M2** - Explain how Newton's laws of motion inform an understanding of collisions	S.6-8.PS.8 (MS-PS2-2)
Electromagnetism • **7.EM1** - Explain factors that affect the size of an electric or magnetic force	S.6-8.PS.9 (MS-PS2-3)
• **7.EM2** - Explain how electric and magnetic fields can exert forces on objects, even when the objects are not in contact	S.6-8.ES.11 (MS-ESS3-5)
Waves • **7.W1** - Relate the parts of a simple wave to the energy it carries	S.6-8.PS.17 (MS-PS4-1)
• **7.W2** - Explain the different ways waves interact as they encounter different media	S.6-8.PS.18 (MS-PS4-2)
• **7.W3** - Explain why digital signals are more reliable than analog signals for encoding and transmitting information	S.6-8.PS.19 (MS-PS4-3)
Experiment Design • **7.ED1** - Explain how to design a replicable experiment	S.K-2.ET.1 (MS-ETS1-1)
Solutions for Engineering Design Problems • **7.SEDP1** - Test possible solutions to engineering design problems	S.6-8.ET.2 (MS-ETS1-2)
• **7.SEDP2** - Evaluate possible solutions to engineering design problems	S.6-8.ET.3 (MS-ETS1-3)
• **7.SEDP3** - Revise possible solutions to engineering design problems	S.6-8.ET.4 (MS-ETS1-4)
Defining Engineering Design Problems • **7.DEDP1** - Describe scientific principles that affect the criteria for an engineering design problem	S.6-8.ET.1 (MS-ETS1-1)
• **7.DEDP2** - Describe potential impacts on people and natural environments that represent constraints for an engineering design problem	S.6-8.ET.1 (MS-ETS1-1)

WORLD HISTORY CYCLE 1	
Content/Measurement Topic	NAD Standard (NCSS)
Ancient Egypt • **7.AE1** - Explain significant influences on the development of ancient Egypt	SS.5-8.TCC.9 (KM 2.9)(PM 2.4)
• **7.AE2** - Explain the significance of the major achievements of ancient Egyptian civilization	SS.5-8.C.3
• **7.AE3** - Explain the relationship between the Kingdom of Kush and ancient Egypt	SS.5-8.TCC.12 (KM 2.7)(PM 2.4)
Ancient Greece • **7.AG1** - Describe characteristics of Mycenaean society and culture	SS.5-8.C.3
• **7.AG2** - Compare the development and characteristics of significant Greek city-states	SS.5-8.C.6 (KM 1.5)(PM 1.4)
• **7.AG3** - Explain the significance of art, science, literature, theatre, mythology, history, and philosophy in Classical Greek society	SS.5-8.TCC.8 (KM 2.6)
• **7.AG4** - Explain the legacy of Greek thought, culture, and government on later societies	SS.5-8.TCC.9 (KM 2.9)(PM 2.4)
• **7.AG5** - Explain the impact of Alexander the Great's conquests and the Hellenistic period on cultural exchange between the Mediterranean basin, Southwest Asia, and India	SS.5-8.IGI.10
Ancient Mesoamerican Civilizations • **7.AMC1** - Explain how Olmec civilization influenced later Mesoamerican civilizations	SS.5-8.TCC.9 (KM 2.9)(PM 2.4)
• **7.AMC2** - Explain the significance of the major achievements of the Maya	SS.5-8. C. 3 SS.5-8.CC.12
Ancient Rome • **7.AR1** - Explain the significance of major achievements and characteristics of ancient Rome	SS.5-8.TCC.12 (KM 2.7)(PM 2.4)
• **7.AR2** - Explain possible reasons for the decline of the Roman Empire	SS.5-8.TCC.6 (KM 2.5)(PM 2.1) SS.5-8.C.8 (KE 1.6)

Byzantine Empire • **7.BE1** - Explain how the Eastern Roman (Byzantine) Empire survived despite the fall of Rome	SS.5-8.C8 (KE 1.6)
• **7.BE2** - Explain the longevity of the Byzantine Empire	SS.5-8.TCC.6 (KM 2.5)(PM 2.1)
• **7.BE3** - Explain the role of the Byzantine Empire in preserving and transmitting ancient Greek learning and culture	
Characteristics of Civilization • **7.CC1** - Explain the relationship among the cultural, social, economic, political, and technological features of early civilizations	SS.5-8.TCC.8 (KM 2.6)
Classical and Medieval Japan • **7.CMJ1** - Explain significant characteristics of classical Japanese society	SS.5-8.TCC.8 (KM 2.6)
• **7.CMJ2** - Explain social and political developments in medieval Japan	SS.5-8.TCC.6 (KM 2.5)(PM 2.1)
Early China • **7.EC1** - Explain significant influences on the development of Chinese civilization	SS.5-8.TCC.9 (KM 2.9)(PM 2.4)
• **7.EC2** - Explain the significance of major achievements and characteristics of early imperial China	SS.5-8.TCC.12 (KM 2.7)(PM 2.4)
• **7.EC3** - Explain possible reasons for the decline of the Han Empire	
Early Empires • **7.EE1** - Explain the development of large regional empires in Mesopotamia and Anatolia	SS.5-8.TCC.8 (KM 2.6)
• **7.EE2** - Explain the foundation of Israel and the interactions with the surrounding empires	SS.5-8.TCC.9 (KM 2.9)(PM 2.4)
• **7.EE3** - Explain the achievements of the Achaemenid Empire	SS.5-8.TCC.12 (KM 2.7)(PM 2.4)
Early Human Communities • **7.EHC1** - Explain influences on the development of early human communities	SS.5-8.TCC.9 (KM 2.9)(PM 2.4)
• **7.EHC2** - Explain the transition from hunter-gatherer communities to early agricultural societies	SS.5-8.TCC.6 (KM 2.5)(PM 2.1)
• **6-8.EHC3** - Compare significant features of pastoral and agrarian societies	

Exchange • **7.00E+01** - Explain how new ideas, techniques, technologies, and institutions spread from one region to another and the conditions under which people assimilated or rejected new ideas or adapted them to existing cultural traditions • **7.00E+02** - Explain patterns of commercial exchange among societies during a given era	SS.5-8.C.6 (KM 1.5)(PM 1.4) SS.5-8.TCC.6 (KM 2.5)(PM 2.1)
Indus Valley Civilization • **7.IVC1** - Explain significant influences on the development of civilization in the Indus Valley • **7.IVC2** - Explain the significance of major achievements of the Indus Valley Civilization • **7.IVC3** - Explain possible reasons for the decline of the Indus Valley Civilization • **7.IVC4** - Explain the spread of Indo-Aryan peoples and culture into India	SS.5-8.TCC.9 (KM 2.9)(PM 2.4) SS.5-8.TCC.12 (KM 2.7)(PM 2.4) SS.5-8.C.8 (KE 1.6)
Judaism and Early Christianity • **7.JEC1** - Explain the development and spread of Judaism • **7.JEC2** - Explain the origins and characteristics of early Christianity • **7.JEC3** - Explain how the development and spread of Christianity affected various regions	SS.5-8.PPE.6 (KM 3.6) SS.5-8.TCC.8 (KM 2.6) SS.5-8.TCC.8 (KM 2.6) SS.5-8.TCC.9 (KM 2.9)(PM 2.4) SS.5-8.C.4 (KM 1.4)(PM 1.5)
Mesopotamia • **7.MESO1** - Explain significant influences on the development of Mesopotamian civilization • **7.MESO2** - Explain the significance of major achievements of ancient Mesopotamia and its rulers	SS.5-8.TCC.12 (KM 2.7)(PM 2.4) SS.5-8.TCC.12 (KM 2.7)(PM 2.4)
Mongol Empire • **7.MGLE1** - Explain significant characteristics and achievements of the Mongol Empire	SS.5-8.TCC.12 (KM 2.7)(PM 2.4)

Pre-Contact Americas • **7.PCA1** - Compare the development and characteristics of various pre-contact Native American societies	SS.5-8.TCC.9 (KM 2.9)(PM 2.4)
• **7.PCA2** - Compare the development and characteristics of early Mesoamerican and Andean societies	SS.5-8.TCC.6 (KM 2.5)(PM 2.1)
• **7.PCA3** - Compare significant features of the Inca and Aztec empires	SS.5-8.C.9 SS.5-8.PPE.5 (KM 3.5)
Precolonial African Societies • **7.PAS1** - Explain the development of precolonial societies in Central, Southern, and East Africa	SS.5-8.TCC.8 (KM 2.6)
• **7.PAS2** - Explain the development of precolonial West African societies	SS.5-8.TCC.8 (KM 2.6)