

## CRCSD Middle School Priority Standards/Measurement Topics

### 6th Grade Humanities Courses:

**Language Arts:** The student should be able to:

- Cite text evidence to support analysis of what text says explicitly, what inferences drawn from text. (RL.6.1/RI.6.1)
- Determine text theme or central idea, how it is conveyed through particular details; summarize text without opinion. (RL.6.2/RI.6.2)
- Describe how plot unfolds/character changes; analyze in detail how individual/event/idea is introduced/elaborated in text. (RL.6.3/RI.6.3)
- Determine word meanings in a text, including figurative/connotative/technical meanings; analyze impact of word choices on tone. (RL.6.4/RI.6.4)
- Read/Comprehend literature (stories, dramas poems) and literary non-fiction in text band with proficiency. (RL.6.10/RI.6.10)
- Produce clear and coherent writing in which development, organization, and style are appropriate to task, purpose, audience. (W.6.4)
- Demonstrate command of conventions of standard English capitalization, punctuation, spelling when writing. (L.6.2)
- Present claims/findings, sequence ideas logically using descriptions, facts, details; use appropriate eye contact, volume, pronunciation. (SL.6.4)

**Social Studies (World Regions and Cultures):** The student should be able to:

- Draw conclusions from sources of information (e.g. timelines, charts, graphs, maps). (6.PS1)
- Evaluate historical evidence to determine context, author's purpose, and reliability using source information. (6.PS2)
- Investigate historical evidence to understand continuities and changes in cultures and time periods. (6.PS3)
- Analyze causation and impacts within and across regions of the world. (6.PS4)
- Construct arguments with a clear claim supported by evidence and reasoning related to social studies concepts. (6.PS5)

### 6th Grade STEM Courses:

**Science:** The student should be able to:

- Use and create a model to describe scientific principles or phenomena.
- Conduct an experiment in which the independent, dependent and controlled variables, tools needed to gather data, how measurements will be recorded, and the type of data needed to support a claim are all identified.
- Analyze and interpret data from multiple sources. (e.g. graph, chart, table)
- Construct arguments with a clear claim supported by evidence and reasoning related to science concepts.
- Describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved.
- Explain how geoscience processes have changed Earth's surface at varying time and spatial scales.
- Analyze and interpret data on natural hazards to forecast future catastrophic events and inform the development of technologies to mitigate their effects.
- Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.
- Describe why asexual reproduction results in offspring with identical genetic information and sexual reproduction results in offspring with genetic variation.

**Mathematics:** CRCSD mathematics courses use measurement topics rather than priority standards. For 6th grade, the measurement topics are:

- Operations
  - Fraction Division
  - Ratios, Rates, and Percents
- Number System
  - Signed Number/Absolute Value
- Graphing Concepts
  - Independent and Dependent Variables
  - Coordinate Plane
- Algebraic Expressions and Equations
  - Evaluating Algebraic Equations
  - Algebraic Equations
  - Inequalities

## CRCSD Middle School Priority Standards/Measurement Topics

### 7th Grade Humanities Courses:

**Language Arts:** The student should be able to:

- Cite several pieces of text evidence to support analysis of what text says explicitly, what inferences drawn from text. (RL.7.1/RI.7.1)
- Determine a theme/2+ central ideas, analyze their development over course of text; provide objective summary of text. (RL.7.2/RI.7.2)
- Determine word/phrase meanings in a text, including figurative/connotative/technical; analyze impacts on sounds, meanings, tone. (RL.7.4/RI.7.4)
- Analyze how author develops/contrasts perspectives; determine author purpose and how author distinguishes this position. (RL.7.6/RI.7.6)
- Produce clear/coherent writing in which development, organization, style are appropriate to task, purpose, audience. (W.7.4)
- Draw evidence from literary or informational texts to support analysis, reflection, research. (W.7.9)
- Demonstrate command of conventions of standard English capitalization, punctuation, spelling when writing. (L.7.2)
- Engage effectively in collaborative discussions on grade 7 topics, texts, issues; build on others' ideas, express own clearly. (SL.7.1)

**Social Studies (Contemporary Global Studies):** The Student should be able to:

- Draw conclusions from sources of information (e.g. timelines, charts, graphs, maps). (7.PS1)
- Evaluate historical evidence to determine context, author's purpose, and reliability using source information. (7.PS2)
- Investigate historical evidence to understand continuities and changes in cultures and time periods. (7.PS3)
- Analyze causation and impacts within and across regions of the world. (7.PS4)
- Construct arguments with a clear claim supported by evidence and reasoning related to social studies concepts. (7.PS5)

### 7th Grade STEM Courses:

**Science:** The student should be able to:

- Use and create a model to describe scientific principles or phenomena.
- Plan an experiment in which the independent, dependent and controlled variables, tools needed to gather data, how measurements will be recorded, and the type of data needed to support a claim are all identified.
- Analyze and interpret data from multiple sources. (e.g. graph, chart, table)
- Apply mathematical concepts and/or processes to scientific questions and engineering problems.
- Construct arguments with a clear claim supported by evidence and reasoning related to science concepts.
- Develop and use a model of the Earth-sun-moon system to describe the cyclic patterns of lunar phases, eclipses of the sun and moon, and seasons.
- Provide evidence that fields exist between objects exerting forces on each other even though the objects are not in contact.
- Determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles as measured by the temperature of the sample.
- Describe how food is rearranged through chemical reactions forming new molecules that support growth and/or release energy as the matter moves through an organism.
- Construct an argument supported by empirical evidence that changes to physical and biological components of an ecosystem affect populations.
- Explain how characteristic animal behaviors and specialized plant structures affect the probability of successful reproduction of animals and plants respectively.

**Mathematics:** CRCSD mathematics courses use measurement topics rather than priority standards. For 7th grade, the measurement topics are:

- Operations
  - Proportional Relationships
  - Converting Fractions, Decimals, and Percentages
- Number System
  - Signed Number/Absolute Value
- Graphing Concepts
  - Proportional Relationships
- Algebraic Expressions and Equations
  - Linear Equations
  - Proportional Relationships
  - Inequalities

## CRCSD Middle School Priority Standards/Measurement Topics

### 8<sup>th</sup> Grade Humanities Courses:

**Language Arts:** The student should be able to:

- Cite the textual evidence that most strongly supports analysis of what text says explicitly as well as inferences drawn from text. (RL.8.1/RI.8.1) Determine theme/central idea, analyze development through text in relation to literary elements or ideas; provide objective summary. (RL.8.2/RI.8.2)
- Determine word/phrase meanings in a text, including figurative, connotative, and technical; analyze impacts on meanings, tone, and allusions. (RL.8.4/RI.8.4)
- Analyze case in which two or more texts provide conflicting information on same topic, identify where texts disagree on facts or interpretation. (RI.8.9)
- Produce clear/coherent writing in which development, organization, style are appropriate to task, purpose, audience. (W.8.4)
- Gather relevant information; use multiple sources; assess credibility; quote/paraphrase; avoid plagiarism; following standard citation format. (W.8.8)
- Draw evidence from literary or informational texts to support analysis, reflection, research. (W.8.9)
- Determine/clarify meaning of words or phrases based on grade 8 reading and content; choose flexibly from range of strategies. (L.8.4)
- Engage effectively in collaborative discussions on grade 8 topics, texts, issues; build on others' ideas, express own clearly. (SL.8.1)

**Social Studies (Civics & Early American History):** The student should be able to:

- Apply principles and values of American government to issues and situations in society to take informed action. (8.PS1)
- Gather and evaluate historical evidence to determine author's purpose, reliability, context, and corroborative value. (8.PS2)
- Analyze changes over time for historical significance (e.g. causation, turning points, socio-economic, political). (8.PS3)
- Analyze historical issues and events from diverse perspectives. (8.PS4)
- Construct arguments supported by appropriate evidence and reasoning with consideration of counterclaims. (8.PS5)

### 8th Grade STEM Courses:

**Science:** The student should be able to:

- Use and create a model to describe scientific principles or phenomena.
- Plan an experiment in which the tools needed to do the data gathering, how measurements will be recorded, and the type of data needed to support a claim are identified.
- Analyze and interpret data from multiple sources. (e.g. graph, chart, table)
- Apply scientific ideas, principles, and/or evidence to construct, revise and/or use an explanation for real-world phenomena.
- Construct arguments with a clear claim supported by evidence and reasoning related to science concepts.
- Explain how genetic variations of traits in a population increase some individuals' probability of surviving and reproducing in a specific environment.
- Explain how natural selection may lead to increases and decreases of specific traits in populations over time.
- Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.
- Support the claim that digitized signals are a more reliable way to encode and transmit information than analog signals.
- Apply Newton's Third Law to design a solution to a problem involving the motion of two colliding objects.\*
- Describe the relationships of kinetic energy to the mass of an object and the speed of an object.
- Describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation that determine the regional climates.

**Mathematics:** CRCSD mathematics courses use measurement topics rather than priority standards. For 8th grade, the measurement topics are:

- Graphing Concepts
  - Linear Equations
  - Concepts of Functions
- Algebraic Expressions and Equations
  - Systems of Linear Functions
  - Linear Functions
  - Pythagorean Theorem
  - Proportional Relationships
  - Solving Equations in One Variable