

MSAD 11 POWER STANDARDS K-12

High School Power Standards

Math Standards:

Algebra- Seeing Structure in Expressions:
Algebra- Arithmetic with Polynomials and Rational Expressions:
Algebra- Creating Equations:
Algebra- Reasoning with Equations and Inequalities:
Functions- Interpreting Functions
Functions- Building Functions
Functions- Linear, Quadratic, and Exponential Models
Modeling
Number and Quantity- Real Number System
Number and Quantity- Quantities
Statistics and Probability- Interpreting Categorical and Quantitative Data
Statistics and Probability- Making Inferences and Justifying Conclusions
Statistics and Probability- Conditional Probability and Rules of Probability

Algebra II

Algebra- Seeing Structure in Expressions:
Algebra- Arithmetic with Polynomials and Rational Expressions:
Algebra- Creating Equations:
Algebra- Reasoning with Equations and Inequalities:
Functions- Interpreting Functions
Functions- Building Functions
Functions- Linear, Quadratic, and Exponential Models
Geometry- Expressing Geometric Properties with Equations
Modeling
Number and Quantity- Real Number System
Number and Quantity- Quantities
Number and Quantity- Complex Number System
Number and Quantity- Vector and Matrix Quantities
Statistics and Probability- Interpreting Categorical and Quantitative Data

Geometry

Geometry- Congruence
Geometry- Similarity, Right Triangles and Trigonometry
Geometry- Circles
Geometry- Expressing Geometric Properties with Equations
Geometry- Geometric Measurement and Dimension
Geometry- Modeling with Geometry
Modeling
Number and Quantity: Quantities
Functions- Trigonometric Functions

Senior Math

Algebra- Seeing Structure in Expressions
Algebra- Creating Expressions
Algebra- Reasoning with Equations and Inequalities
Functions- Interpreting Functions
Functions- Building Functions
Functions- Linear, Quadratic, and Exponential Models
Functions- Trigonometric Functions
Geometry- Congruence
Modeling
Number and Quantity- Real Number System
Number and Quantity- Quantities
Number and Quantity- Vector and Matrix Quantities
Statistics and Probability- Interpreting Categorical and Quantitative Data
Statistics and Probability- Conditional Probability and the Rules of Probability

Statistics, & Trigonometry

Algebra- Creating Expressions

Algebra- Reasoning with Equations and Inequalities

Algebra- Arithmetic with Polynomials and Rational Expressions

Functions- Interpreting Functions

Functions- Building Functions

Functions- Linear, Quadratic, and Exponential Models

Functions- Trigonometric Functions

Geometry- Similarity, Right Triangles, and Trigonometry

Modeling

Number and Quantity- Quantities

Statistics and Probability- Interpreting Categorical and Quantitative Data

Statistics and Probability- Making Inferences and Justifying Conclusions

Statistics and Probability- Conditional Probability and the Rules of Probability

Statistics and Probability- Using Probability to Make Decisions

Pre-Calculus and Advanced Math

Algebra- Seeing Structure in Expressions

Algebra- Arithmetic with Polynomials and Rational Expressions

Algebra- Creating Equations

Algebra- Reasoning with Equations and Inequalities

Functions- Interpreting Functions

Functions- Building Functions

Functions- Linear, Quadratic, and Exponential Models

Functions- Trigonometric Functions

Geometry- Circles

Geometry- Expressing Geometric Properties with Equations

Modeling

Number and Quantity- Real Number System

Number and Quantity- Quantities

Number and Quantity- Complex Number System

English Standards

- *These are the standards for grades 9-12 English*

Reading (Literature)

Reading (Informational Text)

Writing

Speaking and Listening

Language

- *These are the standards for AP Language and Composition:*

Reading (Literature)

Reading (Informational Text)

Writing

Speaking and Listening

Language

- *These are the standards for AP Lit and Composition:*

Reading (Literature)

Reading (Informational Text)

Writing

Speaking and Listening

Language

Social Studies Standards:

Civics and Government:

Economics:

Geography:

History:

Literacy (CCSS):

Science Standards:

Investigating Science I: Engineering/Astronomy (13030)

Investigating Science Essentials I: Engineering/Astronomy (13010)

Engineering Design
Life Cycle of Stars
Cosmology
Structure of Solar System
Waves & Application

Investigating Science II: Earth (13040)

Investigating Science Essentials II: Earth (13020)

Earth's Processes & Systems
Earth's Materials
Weather & Climate
Natural Resources

Investigating Science Honors I: Chemistry/Engineering (1307)

Matter & It's Interaction **junior**
Motion & Stability (micro) **junior**
Energy **junior**
Engineering Design

Investigating Science Honors II: Earth/Astronomy (1308)

Earth's Processes & Systems
Earth's Materials
Weather & Climate
Natural Resources
Earth's Place in the Universe (cos/life cycle/structure of solar)

AP Biology (1329A, 1329B)

Lab Biology (1324A, 1325B)

Biology (1322A, 1323B)

Structures & Processes
Ecosystems
Heredity
Biological Evolution

AP Chemistry (1339A, 1339B)

Lab Chemistry (1330A, 1330B)

Chemistry (1331)

Chemistry Essentials (1333)

Matter & Its Interaction
Motion & Stability (micro)
Energy
Waves & Application

Lab Physics (1340A, 1340B)

Physics (1343)

Physics Essentials (1345)

Senior Engineering Physics (1384A, 1384B)

Motion & Stability (Macro)
Energy
Waves & Application
Engineering Design

Astronomy (1380)

Life Cycle of Stars
Cosmology
Structure of Solar System
Waves & Applications

Meteorology (1381)

Weather & Climate
Natural Resources
Earth's Processes & Systems
Earth's Materials

Anatomy and Physiology (1350)

Macromolecules
Energy
Body Systems
Feedback Mechanisms & Homeostatis

Environmental Science I/II (1360/1361)

Earth's Systems
Earth & Human Activity
Ecosystems
Heredity

Career Education Standards:

Self-Knowledge and Interpersonal Relationships
Exploring Education, Career, and Life Role
Make Decisions, Plan and Create Opportunities, and Make Meaningful Contributions
Financial Literacy
Technology

Visual and Performing Arts Standards:

Literacy
Performance/Creation/Expression
Interpersonal Skills

World Languages Standards:

Interpersonal and Presentational Communication
Interpretive Communication
Comparison and Communities
Language

Health Standards:

Health Concepts
Health Information, Products, and Services
Health Promotion and Risk Reduction
Influences on Health
Communication and Advocacy Skills
Decision-Making and Goal Setting Skills

Physical Education Standards:

Movement/Motor Skills and Knowledge
Physical Fitness Activities and Knowledge
Personal and Social Skills and Knowledge

Middle School Power Standards

ELA Standards:

Reading (Literature)
Reading (Informational Text)
Writing
Speaking and Listening
Language

Math Standards:

6th: Ratios & Proportions, Number System, Expressions & Equations, Geometry, Statistics & Probability
7th: Ratios & Proportions, Number System, Expressions & Equations, Geometry, Statistics & Probability
8th: Number System, Expressions & Equations, Functions, Geometry, Statistics & Probability

Social Studies Standards:

History
Geography
Economics
Civics & Government
Literacy

Science Standards:

6th:
1. Earth

2. Solar System
3. Universe
4. Scientific Application

7th:

1. Ecosystems
2. Cells
3. Heredity and Change
4. Scientific Application

8th:

1. Matter
2. Energy
3. Force and Motion
4. Scientific Application

French and Spanish Standards:

Connections
Communication
Cultures and Communities

Physical Education:

Movement/Motor Skills and Knowledge
Physical Fitness Activities and Knowledge
Personal and Social Skills and Knowledge

Art:

Literacy
Performance/Creation/Expression
Interpersonal Skills

Music:

Literacy
Performance/Creation/Expression
Interpersonal Skills

Health:

Health Concepts
Influences on Health
Health Promotion and Risk Reduction

K-5 Power Standards

Kindergarten

Math:

Measurement
Data
Counting and Cardinality
Operations and Algebraic Thinking
Number and Operations in Base Ten
Geometry

Reading:

Reading Literature
Reading Informational Text
Print Concepts
Phonological Awareness
Phonics and Word Recognition

Writing:
Conventions
Writing Process
Narrative Writing
Opinion Writing
Informational and Research Writing

Science:
Scientific Process
Life Science
Physical Science
Earth Science

Social Studies:
Civics and Government
History
Cultures

Health:
Health Concepts
Health Influences

Physical Education:
Personal and Social Skills
Motor Skills
Fitness Skills

Art:
Literacy
Creation and Expression
Interpersonal Skills

Music:
Literacy
Creation and Expression
Interpersonal Skills

1st Grade

Math:
Operations and Algebraic Thinking
Number and Operations in Base Ten
Measurement
Data
Geometry

Reading:
Reading Literature

Reading Informational Text
Phonological Awareness
Phonics and Word Recognition
Fluency
Speaking and Listening

Writing:
Conventions
Writing Process
Narrative Writing
Opinion Writing
Informational and Research Writing

Science:
Scientific Process
Life Science
Physical Science
Earth Science

Social Studies:
Civics and Government
History
Cultures

Health:
Health Concepts
Health Influences

Physical Education:
Personal and Social Skills
Motor Skills
Fitness Skills

Art:
Literacy
Creation and Expression
Interpersonal Skills

Music:
Literacy
Creation and Expression
Interpersonal Skills

2nd Grade

Math:
Operations and Algebraic Thinking
Number and Operations in Base Ten
Measurement
Data
Geometry

Reading:
Reading Literature

Reading Informational Text
Foundational Skills
Reading Level

Writing:
Conventions
Writing Process
Persuasive Writing
Informational and Research Writing
Narrative Writing

Science:
Scientific Process
Life Science
Physical Science
Earth Science

Social Studies:
Geography
Civics and Government
History
Cultures

Health:
Health Concepts
Health Influences

Physical Education:
Personal and Social Skills
Motor Skills
Fitness Skills

Art:
Literacy
Creation and Expression
Interpersonal Skills

Music:
Literacy
Creation and Expression
Interpersonal Skills

3rd Grade

Math:
Operations and Algebraic Thinking
Number and Operations in Base Ten
Number and Operations Fractions
Measurement
Data
Geometry

Reading:
Reading Literature

Reading Informational Text
Speaking and Listening
Language

Writing:
Conventions
Text Types and Purposes
Writing Process
Research

Science:
Scientific Process
Life Science
Physical Science
Earth Science

Social Studies:
Economics
Civics and Government
History
Geography

Health:
Health Concepts
Health Influences

Physical Education:
Personal and Social Skills
Motor Skills
Fitness Skills

Art:
Literacy
Creation and Expression
Interpersonal Skills

Music:
Literacy
Creation and Expression
Interpersonal Skills

4th Grade

Math:
Number and Operations in Base Ten
Number and Operations Fractions
Measurement and Data
Operations and Algebraic Thinking
Geometry

Reading:
Reading Literature
Reading Informational Text
Speaking and Listening

Language

Writing:

Language

Text Types and Purposes

Writing Process

Research to Build and Present Knowledge

Science:

Scientific Process

Life Science

Physical Science

Earth Science

Social Studies:

Civics and Government

Geography

History

Health:

Health Concepts

Health Influences

Physical Education:

Personal and Social Skills

Motor Skills

Fitness Skills

Art:

Literacy

Creation and Expression

Interpersonal Skills

Music:

Literacy

Creation and Expression

Interpersonal Skills

5th Grade

Math:

Number and Operations in Base Ten

Number and Operations Fractions

Measurement and Data

Operations and Algebraic Thinking

Geometry

Reading:

Reading Literature

Reading Informational Text

Speaking and Listening

Language

Writing:

Language

Text Types and Purposes

Writing Process

Research to Build and Present Knowledge

Science:

Life Science

Earth Science

Physical Science

Social Studies:

Civics and Government

Geography

History

Health:

Health Concepts

Health Influences

Physical Education:

Personal and Social Skills

Motor Skills

Fitness Skills

Art:

Literacy

Creation and Expression

Interpersonal Skills

Music:

Literacy

Creation and Expression

Interpersonal Skills