

Each of the requirements below can be fulfilled at a proficient (P), advanced (A), or mastery (M) level. Proficient level would be achieved by fulfilling knowledge and comprehension criteria for Blooms Taxonomy. Advanced level would be achieved by fulfilling application and analysis for Blooms and mastery would be achieved by fulfilling synthesis and evaluation criteria for Blooms. Each of the requirements must be completed at the basic level for graduation at NCSS. A student can redo a requirement to achieve a higher academic level.

# LANGUAGE ARTS

## 6<sup>th</sup> GRADE

### English/Language Arts

#### Reading Standards A.8.1 to A.8.4

Read 3 fiction and 1 nonfiction books as recommended or approved by advisor. Keep reading and reflection logs on each.

P A M

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

#### Writing Standards B.8.1 to B.8.3

Write at least 8 pieces. Write at least 3 descriptive, 3 narrative, and 2 creative pieces. Write at least one letter.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

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\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Oral Communication      Standards C.8.1 to C.8.3**

Communicate orally at least 4 times. Relate an experience, read orally, and participate in discussions.

\_\_\_ \_\_\_ \_\_\_ **Title, Date** \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Technology      Standards E.8.1 to E.8.5**

Learner creates at least 3 different technology projects. At least one must be multimedia.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Research      Standard F.8.1**

Inquire and conduct research for at least 4 research projects.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Language Art Seminar or Group Work**

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

# 7<sup>th</sup> GRADE

## Reading Standards A.8.1 to A.8.4

Read 3 fiction and 1 nonfiction books as recommended or approved by advisor. Keep reading and reflection logs on each.

P A M

\_\_\_\_ Title, Date \_\_\_\_\_  
\_\_\_\_ Title, Date \_\_\_\_\_  
\_\_\_\_ Title, Date \_\_\_\_\_  
  
\_\_\_\_ Title, Date \_\_\_\_\_

## Writing Standards B.8.1 to B.8.3

Write at least 10 pieces. Write at least 3 descriptive, 3 narrative, and 3 creative pieces. Write at least one letter.

\_\_\_\_ Title, Date \_\_\_\_\_  
\_\_\_\_ Title, Date \_\_\_\_\_  
\_\_\_\_ Title, Date \_\_\_\_\_  
\_\_\_\_ Title, Date \_\_\_\_\_  
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\_\_\_\_ Title, Date \_\_\_\_\_

## Oral Communication Standards C.8.1 to C.8.3

Communicate orally at least 4 times. Relate an experience, read orally, and participate in discussions.

\_\_\_\_ Title, Date \_\_\_\_\_  
\_\_\_\_ Title, Date \_\_\_\_\_  
\_\_\_\_ Title, Date \_\_\_\_\_  
\_\_\_\_ Title, Date \_\_\_\_\_

**Technology Standards E.8.1 to E.8.5**

Learner creates at least 6 different technology projects, at least one multimedia projects.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

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\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Research Standard F.8.1**

Inquire and conduct research for at least 4 research projects.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Language Art Seminar or Group Work**

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

# 8<sup>th</sup> GRADE

## **Reading Standards A.8.1 to A.8.4**

Read 3 fiction and 1 nonfiction books as recommended or approved by advisor. Keep reading and reflection logs on each

### P A M

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

## **Writing Standards B.8.1 to B.8.3**

Write at least 10 pieces. Write at least 3 informative, 3 persuasive, and 3 expository pieces. Write at least one letter.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

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\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

## **Oral Communication Standards C.8.1 to C.8.3**

Communicate orally at least 4 times. Conduct at least 2 interviews and present publicly at least 2 times.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Technology Standards E.8.1 to E.8.5**

Create at least 6 different technology projects. One must be a promotion or campaign with media production. One must be a database

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Research Standard F.8.1**

Inquire and conduct research for at least 5 projects.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Language Arts Seminar or Group Work**

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

# 9<sup>th</sup> GRADE

## Reading Standards A.12.1 to A.12.4

Read 6 books, both fiction and nonfiction, as recommended or approved by advisor. Keep reading and reflection logs on each.

P A M

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

## Writing Standards B.12.1 to B.12.3

Write a minimum of 8 pieces, at least one of each type: creative, argumentative, informative, and business letter.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

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\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

## Oral Presentations Standards C.12.1 to C.12.3

Plan, prepare, and deliver at least 4 oral presentations. At least 2 require advanced preparation and at least 1 must be delivered to a group larger than the learner's advisory.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Technology Standards E.12.1 to E.12.5**

Use a minimum of 6 different types of technology in projects.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Research Standard F.12.1**

Inquire and conduct research for at least 6 research projects.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Language Arts Seminar or Group Work**

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

# 10<sup>th</sup> Grade

## Reading Standards A.12.1 to A.12.4

Read 6 books, both fiction and nonfiction, as recommended or approved by advisor. Keep reading and reflection logs on each.

### P A M

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

## Writing Standards B.12.1 to B.12.3

Write a minimum of 8 pieces, at least one of each type: creative, argumentative, informative, and business letter.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

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\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

## Oral Presentations Standards C.12.1 to C.12.3

Plan, prepare, and deliver at least 4 oral presentations. At least 2 require advanced preparation and at least 1 must be delivered to a group larger than the learner's advisory.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Technology Standards E.12.1 to E.12.5**

Use a minimum of 6 different types of technology in projects.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Research Standard F.12.1**

Inquire and conduct research for at least 6 research projects.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Language Arts Seminar or Group Work**

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

# 11<sup>th</sup> Grade

## Reading Standards A.12.1 to A.12.4

Read 6 books, both fiction and nonfiction, as recommended or approved by advisor. Keep reading and reflection logs on each.

### P A M

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

## Writing Standards B.12.1 to B.12.3

Write a minimum of 8 pieces, at least one of each type: creative, argumentative, informative, and business letter.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

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\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

## Oral Presentations Standards C.12.1 to C.12.3

Plan, prepare, and deliver at least 4 oral presentations. At least 2 require advanced preparation and at least 1 must be delivered to a group larger than the learner's advisory.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Technology Standards E.12.1 to E.12.5**

Use a minimum of 6 different types of technology in projects.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Research Standard F.12.1**

Inquire and conduct research for at least 6 research projects.

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

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\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

**Language Arts Seminar or Group Work**

\_\_\_ \_\_\_ \_\_\_ Title, Date \_\_\_\_\_

# **12<sup>th</sup> GRADE—Senior Project**

# MATH

## NCSS Math Expectations

All students at NCSS will implement mathematics into their Personal Learning Plan every school year of enrollment at NCSS. Students will be expected to be working each day on a math course during their advisory's scheduled math time. *Exceptions will be considered for students that are fulfilling one credit of math through course work at JWMS, RHS, or Nicolet College.* Students that are out of the building during their advisory's scheduled math time will have a separate portion of their day (50 minutes) designated as their math time. NCSS students have several in-building options for their math study:

### Larson Learning

Students may select either the Pre-Algebra or Algebra online courses from Larson Learning (see attached scope and sequence). The Larson Learning Pre-Algebra sequence is structured as a 2 credit program, designed to be completed over two school years. The Larson Learning Algebra sequence is a 1 credit program, designed to be completed over one school year. Students may finish either course in a shorter or longer time span that designed for. See advisor for individual course syllabi.

### Textbooks

Students may also complete their math coursework by working individually or in cohort groups through textbooks. Textbook options are available for Pre-Algebra, Algebra, Geometry, and Algebra II. For students whose skills are not ready for Pre-Algebra or who have completed Algebra II, options for math course work that meets their needs should be discussed with their advisor. Options may include: Consumer Mathematics, Pre-Calculus, and Trigonometry. See advisor for individual course syllabi.

### Traditional Classroom Courses

All NCSS students have the option of taking math courses at JWMS or RHS. Students who decide they would like this option should let their advisor know immediately so that students can be scheduled in the next available course. Seniors who fill out the appropriate district forms may be eligible for Youth Options course work available only at Nicolet College. Students would receive both high school and college credit for such course work.

# Pre-Algebra A

## 1. Whole Numbers and Operations

- \_\_\_\_\_ The base-ten, place-value system
- \_\_\_\_\_ Adding whole numbers
- \_\_\_\_\_ Subtracting whole numbers
- \_\_\_\_\_ Multiplying whole numbers
- \_\_\_\_\_ Dividing whole numbers
- \_\_\_\_\_ Order of Operations
- \_\_\_\_\_ Distributive Property

## 2. Number Theory

- \_\_\_\_\_ Divisibility tests
- \_\_\_\_\_ Greatest common factor
- \_\_\_\_\_ Least common multiple
- \_\_\_\_\_ Prime Factorization

## 3. Fractions

- \_\_\_\_\_ Writing fractions
- \_\_\_\_\_ Equivalent fractions
- \_\_\_\_\_ Comparing and ordering fractions
- \_\_\_\_\_ Simplifying fractions
- \_\_\_\_\_ Adding fractions with like denominators
- \_\_\_\_\_ Subtracting fractions with like denominators
- \_\_\_\_\_ Adding fractions with unlike denominators
- \_\_\_\_\_ Subtracting fractions with unlike denominators
- \_\_\_\_\_ Multiplying fractions
- \_\_\_\_\_ Dividing fractions

## 4. Mixed numbers

- \_\_\_\_\_ Writing mixed numbers
- \_\_\_\_\_ Adding mixed numbers
- \_\_\_\_\_ Subtracting mixed numbers
- \_\_\_\_\_ Subtracting mixed numbers: regrouping
- \_\_\_\_\_ Multiplying mixed numbers
- \_\_\_\_\_ Dividing mixed numbers

## 5. Decimals

- \_\_\_\_\_ Writing decimals
- \_\_\_\_\_ Comparing and ordering decimals
- \_\_\_\_\_ Rounding decimals
- \_\_\_\_\_ Adding decimals

- \_\_\_\_\_ Subtracting decimals
- \_\_\_\_\_ Multiplying decimals
- \_\_\_\_\_ Dividing decimals
- \_\_\_\_\_ Writing fractions as decimals
- \_\_\_\_\_ Writing decimals as fractions
- \_\_\_\_\_ Converting units of measurement

#### 6. Percents

- \_\_\_\_\_ Writing percents
- \_\_\_\_\_ Rewriting percents and decimals
- \_\_\_\_\_ Rewriting percents and fractions
- \_\_\_\_\_ Finding the percent of a number
- \_\_\_\_\_ Large and small percents
- \_\_\_\_\_ Solving percent equations
- \_\_\_\_\_ Percent increase
- \_\_\_\_\_ Percent decrease

#### 7. Integers

- \_\_\_\_\_ Graphing integers on a number line
- \_\_\_\_\_ Comparing and ordering integers
- \_\_\_\_\_ Adding integers
- \_\_\_\_\_ Subtracting integers
- \_\_\_\_\_ Absolute value
- \_\_\_\_\_ Multiplying integers
- \_\_\_\_\_ Dividing integers
- \_\_\_\_\_ Negative and zero exponents
- \_\_\_\_\_ Scientific notation
- \_\_\_\_\_ Scientific notation: multiplying and dividing

#### 8. Ratios, Rates, and Proportions

- \_\_\_\_\_ Writing ratios
- \_\_\_\_\_ Writing proportions
- \_\_\_\_\_ Writing rates
- \_\_\_\_\_ Solving proportions

#### 9. Algebra and Expressions

- \_\_\_\_\_ Variable expressions
- \_\_\_\_\_ An introduction to functions
- \_\_\_\_\_ Adding like terms
- \_\_\_\_\_ Simplifying algebraic expressions

#### 10. Geometry in the Plane

- \_\_\_\_\_ Angles
- \_\_\_\_\_ Classifying polygons
- \_\_\_\_\_ Perimeter
- \_\_\_\_\_ Area of a rectangle
- \_\_\_\_\_ Classifying triangles
- \_\_\_\_\_ Area of a triangle

## 11. More Geometry in the Plane

- \_\_\_\_\_ Circles: area and circumference
- \_\_\_\_\_ Intersecting, parallel and perpendicular lines
- \_\_\_\_\_ Congruent and similar figures
- \_\_\_\_\_ Symmetry
- \_\_\_\_\_ Area of a parallelogram
- \_\_\_\_\_ Area of a trapezoid
- \_\_\_\_\_ Properties of quadrilaterals
- \_\_\_\_\_ Angles of polygons
- \_\_\_\_\_ Triangles: angle and side relationships
- \_\_\_\_\_ Trigonometric ratios

## 12. Statistics and Data Analysis

- \_\_\_\_\_ Pictographs
- \_\_\_\_\_ Bar graphs
- \_\_\_\_\_ Line plots
- \_\_\_\_\_ Stem-and-leaf plots
- \_\_\_\_\_ Circle graphs
- \_\_\_\_\_ Line graphs

# Pre-Algebra B

## 1. Rational Numbers

- \_\_\_\_\_ Graphing rational numbers on a number line
- \_\_\_\_\_ Writing rational numbers
- \_\_\_\_\_ Rational numbers and decimals
- \_\_\_\_\_ Adding rational numbers
- \_\_\_\_\_ Subtracting rational numbers
- \_\_\_\_\_ Multiplying rational numbers
- \_\_\_\_\_ Dividing rational numbers

## 2. Radicals

- \_\_\_\_\_ Writing square roots
- \_\_\_\_\_ Writing cube roots
- \_\_\_\_\_ Approximating square roots
- \_\_\_\_\_ Irrational numbers
- \_\_\_\_\_ The real number system

## 3. Powers and exponents

- \_\_\_\_\_ Powers of ten
- \_\_\_\_\_ Multiplying powers of ten
- \_\_\_\_\_ Dividing powers of ten
- \_\_\_\_\_ Writing powers
- \_\_\_\_\_ Powers and order of operations
- \_\_\_\_\_ Multiplying powers
- \_\_\_\_\_ Dividing powers

## 4. Algebra and Equations

- \_\_\_\_\_ Equations
- \_\_\_\_\_ Solving an equation using mental math
- \_\_\_\_\_ Solving addition equations
- \_\_\_\_\_ Solving subtraction equations
- \_\_\_\_\_ Solving multiplication equations
- \_\_\_\_\_ Solving division equations
- \_\_\_\_\_ Solving two-stop equations
- \_\_\_\_\_ Solving multi-step equations
- \_\_\_\_\_ Solving equations with variables on both sides

## 5. Algebra and Inequalities

- \_\_\_\_\_ Graphing inequalities
- \_\_\_\_\_ Solving inequalities using addition or subtraction
- \_\_\_\_\_ Solving inequalities using multiplication or division
- \_\_\_\_\_ Solving two-step inequalities

## 6. Geometry in Space

- \_\_\_\_\_ Classifying solids
- \_\_\_\_\_ Volume of a prism
- \_\_\_\_\_ Surface area of a prism
- \_\_\_\_\_ Volume of a cylinder
- \_\_\_\_\_ Similar solids
- \_\_\_\_\_ Volume of a pyramid
- \_\_\_\_\_ Volume of a cone
- \_\_\_\_\_ Volume of a sphere
- \_\_\_\_\_ Surface area of a cylinder

## **7. Coordinate Geometry**

- \_\_\_\_\_ Plotting points in a plane: first quadrant
- \_\_\_\_\_ The coordinate plane
- \_\_\_\_\_ Translations of points
- \_\_\_\_\_ Graphing linear equations
- \_\_\_\_\_ Graphing linear inequalities in two variables
- \_\_\_\_\_ Reflections of points
- \_\_\_\_\_ Rotations of points

## **8. Algebraic Connections to Geometry**

- \_\_\_\_\_ The slope of a line
- \_\_\_\_\_ Graphing lines using slope-intercept form
- \_\_\_\_\_ The midpoint formula
- \_\_\_\_\_ The distance formula
- \_\_\_\_\_ The Pythagorean Theorem and its converse
- \_\_\_\_\_ The Triangle inequality

## 9. Counting Principles

- \_\_\_\_\_ Tree diagrams
- \_\_\_\_\_ Counting principle
- \_\_\_\_\_ Permutations
- \_\_\_\_\_ Combinations
- \_\_\_\_\_ Pascal's Triangle

## 10. Probability

- \_\_\_\_\_ The probability of an event
- \_\_\_\_\_ Independent events
- \_\_\_\_\_ Probability & permutations
- \_\_\_\_\_ Probability & combinations
- \_\_\_\_\_ Expected value
- \_\_\_\_\_ Venn diagrams
- \_\_\_\_\_ Making predictions
- \_\_\_\_\_ Probability & simulations

## 11. Advanced Statistics & Data Analysis

- \_\_\_\_\_ Mean, median, and mode
- \_\_\_\_\_ Scatter plots

- \_\_\_\_\_ Histograms and frequency distributions
- \_\_\_\_\_ Box-and-whisker plots
- \_\_\_\_\_ Time lines
- \_\_\_\_\_ Matrices

## **ALGEBRA**

### **Algebra based on Larson Learning and the School District of Rhinelander Benchmarks**

#### **Algebra and Expressions**

- \_\_\_\_\_ Variables expressions
- \_\_\_\_\_ Exponents and powers
- \_\_\_\_\_ Powers and order of operations
- \_\_\_\_\_ Algebra and the distributive property
- \_\_\_\_\_ Combining like terms
- \_\_\_\_\_ Simplifying algebraic expressions

#### **Basics of Algebra**

- \_\_\_\_\_ Equations
- \_\_\_\_\_ Inequalities
- \_\_\_\_\_ Translating verbal expressions, equations, and inequalities
- \_\_\_\_\_ Writing ratios
- \_\_\_\_\_ Writing rates

#### **Real Numbers**

- \_\_\_\_\_ The real number line
- \_\_\_\_\_ Absolute value
- \_\_\_\_\_ Adding real numbers
- \_\_\_\_\_ Subtracting real numbers
- \_\_\_\_\_ Multiplying real numbers
- \_\_\_\_\_ Dividing real numbers

#### **Functions and Graphs**

- \_\_\_\_\_ An introduction to functions
- \_\_\_\_\_ Graphs, domain, and range of functions
- \_\_\_\_\_ Testing for functions
- \_\_\_\_\_ Using function notation

#### **Solving Linear Equations**

- \_\_\_\_\_ Solving an equation using mental math
- \_\_\_\_\_ Solving addition equations
- \_\_\_\_\_ Solving subtraction equations
- \_\_\_\_\_ Solving multiplication equations
- \_\_\_\_\_ Solving division equations
- \_\_\_\_\_ Solving multi-step equations
- \_\_\_\_\_ Solving equations with variables on both sides

#### **Graphing Linear Equations**

- \_\_\_\_\_ The coordinate plane
- \_\_\_\_\_ Graphing linear equations
- \_\_\_\_\_ Graphing horizontal and vertical lines
- \_\_\_\_\_ Graphing lines using intercepts
- \_\_\_\_\_ The slope of a line
- \_\_\_\_\_ Direct variation
- \_\_\_\_\_ Graphing lines using slope-intercept form

### **Writing Linear Equations**

- \_\_\_\_\_ Slope-intercept form
- \_\_\_\_\_ Point-slope form and equations of parallel lines
- \_\_\_\_\_ Writing linear equations using two points
- \_\_\_\_\_ Standard form
- \_\_\_\_\_ Modeling with linear functions

### **Solving and Graphing Linear Inequalities**

- \_\_\_\_\_ Graphing inequalities
- \_\_\_\_\_ Solving inequalities using addition or subtraction
- \_\_\_\_\_ Solving inequalities using multiplication or division
- \_\_\_\_\_ Solving multi-step inequalities
- \_\_\_\_\_ Solving compound inequalities involving “and”
- \_\_\_\_\_ Solving compound inequalities involving “or”
- \_\_\_\_\_ Solving absolute-value inequalities
- \_\_\_\_\_ Graphing linear inequalities in two variables

### **Systems of Linear Equations and Inequalities**

- \_\_\_\_\_ Graphing linear systems
- \_\_\_\_\_ Solving linear systems by substitution
- \_\_\_\_\_ Solving linear systems by linear combinations
- \_\_\_\_\_ Solutions of linear systems
- \_\_\_\_\_ Systems of linear inequalities

### **Exponents and Exponential Functions**

- \_\_\_\_\_ Multiplication properties of exponents
- \_\_\_\_\_ Zero and negative exponents
- \_\_\_\_\_ Graphs of exponential functions
- \_\_\_\_\_ Division properties of exponents
- \_\_\_\_\_ Scientific notation
- \_\_\_\_\_ Scientific notation: multiplying and dividing
- \_\_\_\_\_ Exponential growth functions
- \_\_\_\_\_ Exponential decay functions

### **Quadratic Equations and Functions**

- \_\_\_\_\_ Writing square roots
- \_\_\_\_\_ Solving quadratic equations by finding square roots
- \_\_\_\_\_ Simplifying radicals
- \_\_\_\_\_ Graphing quadratic functions
- \_\_\_\_\_ Solving quadratic equations by graphing
- \_\_\_\_\_ Solving quadratic equations by the quadratic formula

- \_\_\_\_\_ Using the discriminant
- \_\_\_\_\_ Graphing quadratic inequalities

### **Polynomials and Factoring**

- \_\_\_\_\_ Adding and subtracting polynomials
- \_\_\_\_\_ Multiplying polynomials
- \_\_\_\_\_ Special products of polynomials
- \_\_\_\_\_ Factoring  $x^2 + bx + c$
- \_\_\_\_\_ Factoring  $ax^2 + bx + c$
- \_\_\_\_\_ Factoring special products
- \_\_\_\_\_ Cubic polynomials and factoring

### **Rational Expressions and Equations**

- \_\_\_\_\_ Writing proportions
- \_\_\_\_\_ Solving proportions
- \_\_\_\_\_ Algebra and proportions
- \_\_\_\_\_ Inverse variation
- \_\_\_\_\_ Simplifying rational expressions
- \_\_\_\_\_ Multiplying and dividing rational expressions
- \_\_\_\_\_ Adding and subtracting with like denominators
- \_\_\_\_\_ Adding and subtracting with unlike denominators
- \_\_\_\_\_ Rational equations

### **Radicals and Functions**

- \_\_\_\_\_ Functions involving square roots
- \_\_\_\_\_ Operations with radical expressions
- \_\_\_\_\_ Solving radical expressions
- \_\_\_\_\_ Rational exponents
- \_\_\_\_\_ Solving quadratic equations by completing the square

### **Algebraic Connections to Geometry**

- \_\_\_\_\_ Equations of perpendicular lines
- \_\_\_\_\_ The Pythagorean theorem and its converse
- \_\_\_\_\_ The distance formula
- \_\_\_\_\_ The midpoint formula
- \_\_\_\_\_ The triangle inequality

# GEOMETRY

## Basics of Geometry

- \_\_\_\_\_ Patterns and inductive reasoning
- \_\_\_\_\_ Points, lines, and planes
- \_\_\_\_\_ Segments and their measures
- \_\_\_\_\_ Angles and their measures
- \_\_\_\_\_ Segment and angle bisectors
- \_\_\_\_\_ Angle pair relationships
- \_\_\_\_\_ Introduction to perimeter, circumference, and area

## Reasoning and Proof

- \_\_\_\_\_ Conditional statements
- \_\_\_\_\_ Definitions and biconditional statements
- \_\_\_\_\_ Deductive reasoning
- \_\_\_\_\_ Reasoning with properties from algebra
- \_\_\_\_\_ Proving statements about segments
- \_\_\_\_\_ Proving statements about angles

## Perpendicular and Parallel Lines

- \_\_\_\_\_ Lines and angles
- \_\_\_\_\_ Proof and perpendicular lines
- \_\_\_\_\_ Parallel lines and transversals
- \_\_\_\_\_ Proving lines are parallel
- \_\_\_\_\_ Using properties of parallel lines
- \_\_\_\_\_ Parallel lines in the coordinate plane
- \_\_\_\_\_ Perpendicular lines in the coordinate plane

## Congruent Triangles

- \_\_\_\_\_ Triangles and angles
- \_\_\_\_\_ Congruence and triangles
- \_\_\_\_\_ Proving triangles are congruent: SSS and SAS
- \_\_\_\_\_ Proving triangles are congruent ASA and AAS
- \_\_\_\_\_ Using congruent triangles
- \_\_\_\_\_ Isosceles, Equilateral, and Right triangles
- \_\_\_\_\_ Triangles and coordinate proof

## Properties of Triangles

- \_\_\_\_\_ Perpendiculars and bisectors
- \_\_\_\_\_ Bisectors of a triangle
- \_\_\_\_\_ Medians and altitudes of a triangle
- \_\_\_\_\_ Midsegment theorem

- \_\_\_\_\_ Inequalities in one triangle
- \_\_\_\_\_ Indirect proof and inequalities in two triangles

### **Quadrilaterals**

- \_\_\_\_\_ Polygons
- \_\_\_\_\_ Properties of parallelograms
- \_\_\_\_\_ Proving quadrilaterals are parallelograms
- \_\_\_\_\_ Rhombuses, rectangles, and squares
- \_\_\_\_\_ Trapezoids and kites
- \_\_\_\_\_ Special quadrilaterals
- \_\_\_\_\_ Areas of triangles and quadrilaterals

### **Transformations**

- \_\_\_\_\_ Rigid motion in a plane
- \_\_\_\_\_ Reflections
- \_\_\_\_\_ Rotations
- \_\_\_\_\_ Translations and vectors
- \_\_\_\_\_ Glide reflections and compositions
- \_\_\_\_\_ Frieze patterns

### **Similarity**

- \_\_\_\_\_ Ratio and proportion
- \_\_\_\_\_ Problem solving in geometry with proportions
- \_\_\_\_\_ Similar polygons
- \_\_\_\_\_ Similar triangles
- \_\_\_\_\_ Proving triangles are similar
- \_\_\_\_\_ Proportions and similar triangles
- \_\_\_\_\_ Dilations

### **Right Triangles**

- \_\_\_\_\_ Similar right triangles
- \_\_\_\_\_ The Pythagorean Theorem
- \_\_\_\_\_ The converse of the Pythagorean Theorem
- \_\_\_\_\_ Special right triangles
- \_\_\_\_\_ Trigonometric ratios
- \_\_\_\_\_ Solving right triangles
- \_\_\_\_\_ Vectors

### **Circles**

- \_\_\_\_\_ Tangents to circles
- \_\_\_\_\_ Arcs and chords
- \_\_\_\_\_ Inscribed angles
- \_\_\_\_\_ Other angle relationships in circles
- \_\_\_\_\_ Segment lengths in circles
- \_\_\_\_\_ Equations of circles
- \_\_\_\_\_ Locus

### **Area of Polygons and Circles**

- \_\_\_\_\_ Angle measures in polygons
- \_\_\_\_\_ Areas of regular polygons
- \_\_\_\_\_ Perimeters and areas of similar figures
- \_\_\_\_\_ Circumference and arc length
- \_\_\_\_\_ Areas of circles and sectors
- \_\_\_\_\_ Geometric probability

### **Surface Area and Volume**

- \_\_\_\_\_ Exploring solids
- \_\_\_\_\_ Surface area of prisms and cylinders
- \_\_\_\_\_ Surface area of pyramids and cones
- \_\_\_\_\_ Volume of prisms and cylinders
- \_\_\_\_\_ Volume of pyramids and cones
- \_\_\_\_\_ Surface area and volume of spheres
- \_\_\_\_\_ Similar solids

# 10<sup>th</sup> GRADE MATH

## Algebra II

### Equations and Inequalities

- \_\_\_\_\_ Real numbers and number operations
- \_\_\_\_\_ Algebraic expressions and models
- \_\_\_\_\_ Solving linear equations
- \_\_\_\_\_ Rewriting equations and formulas
- \_\_\_\_\_ Problem solving using algebraic models
- \_\_\_\_\_ Solving linear inequalities
- \_\_\_\_\_ Solving absolute value equations and inequalities

### Linear Equations and Functions

- \_\_\_\_\_ Functions and their graphs
- \_\_\_\_\_ Slope and rate of change
- \_\_\_\_\_ Quick graphs of linear equations
- \_\_\_\_\_ Writing equations of lines
- \_\_\_\_\_ Correlation and best-fitting lines
- \_\_\_\_\_ Linear inequalities in two variables
- \_\_\_\_\_ Piecewise functions
- \_\_\_\_\_ Absolute value functions

### Systems of Linear Equations and Inequalities

- \_\_\_\_\_ Solving linear systems by graphing
- \_\_\_\_\_ Solving linear systems algebraically
- \_\_\_\_\_ Graphing and solving systems of linear inequalities
- \_\_\_\_\_ Linear programming
- \_\_\_\_\_ Graphing linear equations in three variables
- \_\_\_\_\_ Solving systems of linear equations in three variables

### Matrices and Determinants

- \_\_\_\_\_ Matrix operations
- \_\_\_\_\_ Multiplying matrices
- \_\_\_\_\_ Determinants and Cramer's rule
- \_\_\_\_\_ Identity and inverse matrices
- \_\_\_\_\_ Solving systems using inverse matrices

### Quadratic Functions

- \_\_\_\_\_ Graphing quadratic functions
- \_\_\_\_\_ Solving quadratic equations by factoring
- \_\_\_\_\_ Solving quadratic equations by finding square roots
- \_\_\_\_\_ Complex numbers

- \_\_\_\_\_ Completing the square
- \_\_\_\_\_ The quadratic formula and the discriminant
- \_\_\_\_\_ Graphing and solving quadratic inequalities
- \_\_\_\_\_ Modeling with quadratic functions

### **Polynomials and Polynomial Functions**

- \_\_\_\_\_ Using properties of exponents
- \_\_\_\_\_ Evaluating and graphing polynomial functions
- \_\_\_\_\_ Adding, subtracting, and multiplying polynomials
- \_\_\_\_\_ Factoring and solving polynomial equations
- \_\_\_\_\_ The remainder and factor theorems
- \_\_\_\_\_ Finding rational zeros
- \_\_\_\_\_ Using the fundamental theorem of algebra
- \_\_\_\_\_ Analyzing graphs of polynomial functions
- \_\_\_\_\_ Modeling with polynomial functions

### **Powers, Roots, and Radicals**

- \_\_\_\_\_ Nth roots and rational exponents
- \_\_\_\_\_ Properties of rational exponents
- \_\_\_\_\_ Power functions and function operations
- \_\_\_\_\_ Inverse functions
- \_\_\_\_\_ Graphing square root and cube root functions
- \_\_\_\_\_ Solving radical equations
- \_\_\_\_\_ Statistics and statistical graphs

### **Exponential and Logarithmic Functions**

- \_\_\_\_\_ Exponential growth
- \_\_\_\_\_ Exponential decay
- \_\_\_\_\_ The number e
- \_\_\_\_\_ Logarithmic functions
- \_\_\_\_\_ Properties of logarithms
- \_\_\_\_\_ Solving exponential and logarithmic equations
- \_\_\_\_\_ Modeling with exponential and power functions
- \_\_\_\_\_ Logistic growth functions

### **Rational Equations and Functions**

- \_\_\_\_\_ Inverse and joint variation
- \_\_\_\_\_ Graphing simple rational functions
- \_\_\_\_\_ Graphing general rational functions
- \_\_\_\_\_ Multiplying and dividing rational expressions
- \_\_\_\_\_ Addition, subtraction, and complex fractions
- \_\_\_\_\_ Solving rational equations

### **Quadratic Relations and Conic Sections**

- \_\_\_\_\_ The distance and midpoint formulas
- \_\_\_\_\_ Parabolas
- \_\_\_\_\_ Circles
- \_\_\_\_\_ Ellipses
- \_\_\_\_\_ Hyperbolas

\_\_\_\_\_ Graphing and classifying conics

\_\_\_\_\_ Solving quadratic systems

### **Sequences and Series**

\_\_\_\_\_ An introduction to sequences and series

\_\_\_\_\_ Arithmetic sequences and series

\_\_\_\_\_ Geometric sequences and series

\_\_\_\_\_ Infinite geometric series

\_\_\_\_\_ Recursive rules for sequences

### **Probability and Statistics**

\_\_\_\_\_ The fundamental counting principle and permutations

\_\_\_\_\_ Combinations and the binomial theorem

\_\_\_\_\_ An introduction to probability

\_\_\_\_\_ Probability of compound events

\_\_\_\_\_ Probability of independent and dependent events

\_\_\_\_\_ Binomial distributions

\_\_\_\_\_ Normal distributions

### **Trigonometric Ratios and Functions**

\_\_\_\_\_ Right triangle trigonometry

\_\_\_\_\_ General angles and radian measure

\_\_\_\_\_ Trigonometric functions of any angle

\_\_\_\_\_ Inverse trigonometric functions

\_\_\_\_\_ The law of sines

\_\_\_\_\_ The law of cosines

\_\_\_\_\_ Parametric equations and projectile motion

### **Trigonometric Graphs, Identities, and Equations**

\_\_\_\_\_ Graphing sine, cosine, and tangent functions

\_\_\_\_\_ Translations and reflections of trigonometric graphs

\_\_\_\_\_ Verifying trigonometric identities

\_\_\_\_\_ Solving trigonometric equations

\_\_\_\_\_ Modeling with trigonometric functions

\_\_\_\_\_ Using sum and difference formulas

\_\_\_\_\_ Using double- and half-angle formulas

## **Health 6-8**

### **Health Promotion and Disease Prevention**

- \_\_\_ Circulatory System (A.8.5)
- \_\_\_ Respiratory System (A.8.5)
- \_\_\_ Musculoskeletal System (A.8.5)
- \_\_\_ Nervous System (A.8.5)
- \_\_\_ Digestive System (A.8.5)
- \_\_\_ Reproductive System (A.8.5)
- \_\_\_ 5 components of self (A.8.1)
- \_\_\_ Health and Environments (A.8.2, 8.3, 8.4, 8.6, B.8.3, 8.6)
- \_\_\_ Adolescent Health Risk Factors (A.8.3, 8.4, B.8.3)
- \_\_\_ Health Maintenance (A.8.7)

### **Healthy Behaviors**

- \_\_\_ Personal Choices (B.8.1, 8.3)
- \_\_\_ Health Assessment (B.8.2)
- \_\_\_ Skill: Develop plan to improve and maintain any of the 5 components of self at School/work (B.8.4, 8.5 A.8.1, and C.8.4)
- \_\_\_ Skill: Develop plan to improve and maintain any of the 5 components of self at Home (A.8.1, B.8.4, 8.5, C.8.4)

### **Goal Setting and Decision Making**

- \_\_\_ Individual and Collaborative Decision making (C. 8.1)
- \_\_\_ Peers and Health (C.8.2, E.8.4)
- \_\_\_ Community Values and Health (C.8.2,)
- \_\_\_ Personal Health Plan (C.8.4)
- \_\_\_ Consequence of Healthy or Unhealthy Actions (C.8.3)

### **Information and Services**

- \_\_\_ Health Information on the Web (D.8.1, 8.2, 8.4)
- \_\_\_ Health Information in my Community (D.8.1, 8.2, 8.4)
- \_\_\_ Money and Health Care (D.8.5, G.8.5)
- \_\_\_ Health Careers (D.8.7)
- \_\_\_ Accessing Professional Health Services (D.8.2, 8.4, 8.6, 8.7 G.8.5)

### **Culture, Media, and Technology**

- \_\_\_ Culture and Health (E.8.1, D. 8.3, G.8.5)
- \_\_\_ Advertising Influences on Health (E.8.2, 8.3, D. 8.3)
- \_\_\_ Consumer Technology and Health (E.8.2, 8.3)

\_\_\_\_ Medical Technology and Health (E.8.2, 8.3)

**Communication**

\_\_\_\_ Verbal and Non-verbal Communication (F.8.1)

\_\_\_\_ Conflict Resolution (F.8.2, 8.5, 8.6, G.8.5)

\_\_\_\_ Communications in Friendships and Dating (F.8.1, 8.2, 8.3, 8.4)

\_\_\_\_ Communications with Adults (F.8.1, 8.2, 8.3, 8.4)

**Advocacy**

\_\_\_\_ Presentation on Health Topic (G.8.1, 8.2)

\_\_\_\_ Group Activity on Health Topic (G.8.3)

\_\_\_\_ Service Learning Project on Health Issue (G.8.4)

## **Health 9-12**

### **Health Promotion and Disease Prevention**

- \_\_\_ Interrelationships of 5 Components of Health (A.12.1, 12.4)
- \_\_\_ Healthy Communities (A.12.2, 12.4, 12.6)
- \_\_\_ Lifelong Risk Factors (A.12.3, 12.4, 12.5, 12.7, B.12.2)
- \_\_\_ Policy and Regulations (A.12.2, 12.6, 12.8)

### **Healthy Behaviors**

- \_\_\_ Enhancing Health (B.12.1, 12.2, 12.6)
- \_\_\_ Consequences (B. 12.3, C.12.3)
- \_\_\_ Skill: Develop plan to improve and maintain any of the 5 components of self in the community (B.12.4, 12.5, C. 12.4)

### **Goal Setting and Decision Making**

- \_\_\_ Various Decision Making Strategies (C.12.1, 12.2)
- \_\_\_ Decision Making Influences (C. 12.2)
- \_\_\_ Predict Health Impacts (C. 12.2, 12.3, A. 12.8, B.12.3)
- \_\_\_ Evaluate and Adjust Personal Health Plan (C.12.4)

### **Information and Services**

- \_\_\_ Evaluate Health Products and Services (D.12.1, 12.2, E. 12.3)
- \_\_\_ Selecting Professional Health Services (D. 12.3, 12.4, 12.5, 12.6)
- \_\_\_ Career Health Interests and Abilities (D.12.7)

### **Culture, Media, and Technology**

- \_\_\_ Evaluate Cultural Influences on Health (E. 12.1, 12.4)
- \_\_\_ Media Influence on Community Health (E.12.2, D. 12.1, 12.2)
- \_\_\_ Consumer Technology and the Community (E.12.3)

### **Communication**

- \_\_\_ Effective Communication (F. 12.1, 12.2, 12.3, 12.4, 12.5, 12.6, G. 12.5)

### **Advocacy**

- \_\_\_ Evaluate Health Presentations (G. 12.1, 12.3)
- \_\_\_ Adaptation of Health Presentation to Audience (G. 12.3, 12.4, 12.5, 12.6)

## 6<sup>th</sup>-8<sup>th</sup> Grade Science

The categories of study found in science are modeled after categories found in many traditional middle and high school science departments. All NCSS middle school students are expected to complete both a minimum number of hours of study, as well as covering a minimum number of items, within each category. Students are expected to document at least 150 hours of study in the area of science. The breakdowns of the hour requirements for the entire 6th-8th grade span are as follows:

**Physical Science: 40 hours**

**Earth Science: 40 hours**

**Life Science: 40 hours**

**Environmental Science: 30 hours**

### Physical Science

(All students will cover 6 of 9 items, including all items in bold)

- \_\_\_ Change in Matter (D.8.1)
- \_\_\_ Chemical Interactions (D.8.3, D.8.4, D.8.7)
- \_\_\_ Energy Resources (D.8.9)
- \_\_\_ Law of Thermodynamics (EE B.8.1)
- \_\_\_ Atomic Structure (D.8.2, D.8.10)
- \_\_\_ Chemical Bonds (D.8.3)
- \_\_\_ Motion (D.8.5, D.8.6, G.8.4)
- \_\_\_ Elements and Their Properties (C.8.2)
- \_\_\_ Waves, Light & Sound (D.8.8)

### Earth Science

(All students will cover 9 of 12 items, including all items in bold)

- \_\_\_ **Earth Structure (E.8.2, E.8.5)**
- \_\_\_ **Earth's Surface (E.8.1, E.8.2, E.8.3)**
- \_\_\_ Rocks & Minerals (E.8.4)
- \_\_\_ Astronomy (B.8.1-2, E.8.7, E.8.8)
- \_\_\_ Scientific Theories: Astronomy (A.8.3-4)
- \_\_\_ Earth Dynamics (E.8.1)
- \_\_\_ Atmosphere & Weather (E.8.1, E.8.3)
- \_\_\_ Oceanography (E.8.3)
- \_\_\_ The Great Lakes (E.8.6) (EE B.8.13)
- \_\_\_ Wisconsin Lakes (EE B.8.6)
- \_\_\_ Glaciations of Wisconsin (E.8.5)
- \_\_\_ Wisconsin River System (EE B.8.6)

## Life Science

(All students will cover 9 of 12 items, including all items in bold)

- \_\_\_ **Characteristics of Living Things (F.8.1, F.8.2)**
- \_\_\_ Levels of Organisms (EE B.8.4)
- \_\_\_ **Unicellular and Multicellular Organisms (F.8.3)**
- \_\_\_ **Scientific Theories: Biology (A.8.5-8) (EE B.8.2)**
- \_\_\_ The Human Body (F.8.1)
- \_\_\_ Human Heredity (F.8.4, F.8.5)
- \_\_\_ **The Five Kingdom System (F.8.3, F.8.6, F.8.7)**
- \_\_\_ Species of Choice: Kingdom Protista (F.8.3, F.8.6, F.8.7)
- \_\_\_ Species of Choice: Kingdom Monera (F.8.3, F.8.6, F.8.7)
- \_\_\_ Species of Choice: Kingdom Fungi (F.8.3, F.8.6, F.8.7)
- \_\_\_ Species of Choice: Kingdom Plantae (F.8.3, F.8.6, F.8.7)
- \_\_\_ Species of Choice: Kingdom Animalia (F.8.3, F.8.6, F.8.7)

## Environmental Science

(All students will cover 12 of 16 items, including all items in bold)

- \_\_\_ **Biodiversity (EE B.8.3)**
- \_\_\_ Biochemical Cycles (EE B.8.7)
- \_\_\_ Ecosystems of the World (F.8.8)
- \_\_\_ **Ecosystems of Wisconsin (EE B.8.6)**
- \_\_\_ Ecosystems: Populations (F.8.8)
- \_\_\_ Ecosystems: Organism Interaction (EE B.8.8)
- \_\_\_ Ecosystems: Environmental & Human Change (EE B.8.9-11)
- \_\_\_ Human Resource Consumption & Distribution (E.8.10) (EE B.8.12-15)
- \_\_\_ Wisconsin Resource Management (EE B.8.14, B.8.24)
- \_\_\_ Point & Non-Point Pollution (EE B.8.15-21)
- \_\_\_ Environmental Monitoring Techniques (EE C.8.2)
- \_\_\_ Population Growth (F.8.9)
- \_\_\_ Wisconsin Forestry (F.8.10)
- \_\_\_ Wisconsin Wildlife (F.8.2, F.8.7-8)
- \_\_\_ Wisconsin Invasives (F.8.9)
- \_\_\_ The Great Lakes (E.8.6) (EE B.8.10)

## Science Perspectives

(All students will cover 7 of 9 items, including all items in bold)

- \_\_\_ Science Fiction Reading Selection (B.8.5)
- \_\_\_ Science Non-Fiction Reading Selection (A.8.2, B.8.4, B.8.5)
- \_\_\_ Science & Society: Career Research (G.8.1-3) (EE B.8.22)
- \_\_\_ Science & Society: Community Expert Interview (G.8.6)
- \_\_\_ Science & Society: News Report (H.8.1)
- \_\_\_ Science & Society: County Issue (B.8.6, G.8.5) (EE C.8.1-4) (EE D.8.1-8)
- \_\_\_ Science & Society: Regional Issue (G.8.5) (EE B.8.23) (EE C.8.1-4) (EE D.8.1-8)
- \_\_\_ Science & Society: Group Problem Solving (H.8.2-3) (EE C.8.1-4) (EE D.8.1-8)
- \_\_\_ Science & Society: Environmental Stewardship Plan (EE E.8.1-2)

## Science Skills

(All students will cover 6 of 8 items, including all items in bold)

- \_\_\_ Lab Safety & Symbols (C.8.3)
- \_\_\_ **Scientific Method (A.8.1, A.8.7, B.8.3, C.8.1-11, G.8.7) (EE A.8.1-6)**
- \_\_\_ Scientific Units of Measurement (D.8.1)
- \_\_\_ Scientific Mathematical Formulas (D.8.1)
- \_\_\_ Microscope Use (C.8.3)
- \_\_\_ Orienteering (EE A.8.2)
- \_\_\_ Reading Maps: Topographic (A.8.6)
- \_\_\_ Reading Maps: Weather (A.8.6)

## 9<sup>th</sup>-12<sup>th</sup> Grade Science

The categories of study found in science are modeled after categories found in many traditional middle and high school science departments. All NCSS high school students are expected to complete both a minimum number of hours of study, as well as covering a minimum number of items, within each category. Students are expected to document at least 200 hours of study in the area of science. The breakdowns of the hour requirements for the entire 9th-12th grade span are as follows:

**Physical Science: 50 hours**

**Earth Science: 50 hours**

**Life Science: 50 hours**

**Environmental Science: 50 hours**

### Physical Science

(All students will cover 4 of 6 items, including all items in bold)

- \_\_\_ Chemical Reactions (D.12.3, D.12.4, D.12.5)
- \_\_\_ Types of Chemical Interactions (D.12.6)
- \_\_\_ **Atomic Structure & Properties (D.12.1, D.12.2)**
- \_\_\_ Motion & Forces (D.12.7, D.12.8, D.12.9)
- \_\_\_ **Law of Conservation of Energy (D.12.10)**
- \_\_\_ Scientific Interactions in the Physical World (D.12.1, D.12.11, D.12.12)

### Earth Science

(All students will cover 7 of 9 items, including all items in bold)

- \_\_\_ **Earth Cycles (E.12.2)**
- \_\_\_ Earth's Energy Systems (E.12.1)
- \_\_\_ Earth Structure (G.12.2)
- \_\_\_ Astronomy (E.12.3, E.12.5)
- \_\_\_ Scientific Theories: Astronomy (A.12.4)
- \_\_\_ Space Exploration (H.12.1)
- \_\_\_ **Earth Dynamics (E.12.2)**
- \_\_\_ Wisconsin Lakes (EE B.12.10)
- \_\_\_ Wisconsin River System (EE B.12.11)

## Life Science

(All students will cover 7 of 10 items, including all items in bold)

- \_\_\_ **Cell Structure and Function (F.12.1-2)**
- \_\_\_ Human Body: The Seven Body Systems (F.12.10)
- \_\_\_ Human Body: 21<sup>st</sup> Century Diseases & Disorders (B.12.3)
- \_\_\_ Vertebrates (F.12.6, 12)
- \_\_\_ Invertebrates (F.12.6, 12)
- \_\_\_ Heredity (F.12.3-4, 6)
- \_\_\_ **Evolution Theories (F.12.5)**
- \_\_\_ Energy in Living Systems (F.12.11) (EE B.12.1)
- \_\_\_ Food Chains & Webs (F.12.9)
- \_\_\_ Photosynthesis (F.12.9)

## Environmental Science

(All students will cover 8 of 10 items, including all items in bold)

- \_\_\_ **An Ecosystem's Value (EE B.12.2,7)**
- \_\_\_ Ecosystems: Organism Interaction & Behavior (F.12.7, 12)
- \_\_\_ **Ecosystems: Environmental & Human Change (F.12.8) (EE B.12.3,8,9)**
- \_\_\_ Threatened, Endangered and Extinct Species: World (EE B.12.4-6,8)
- \_\_\_ Threatened, Endangered and Extinct Species: Wisconsin (EE B.12.4-6,8)
- \_\_\_ **Wisconsin Natural Resource Use & Management (B.12.4, G.12.3) (EE B.12.10-16)**
- \_\_\_ Wisconsin Environmental Legacy Heroes & Heroines (EE B.12.22, C.12.3)
- \_\_\_ Point & Non-Point Pollution (EE B.12.17-20)
- \_\_\_ **Sustainable Resource Usage (E.12.4)**
- \_\_\_ Renewable Energy Options (B.12.9-11)

## Science Perspectives

(All students will cover 6 of 9 items, including all items in bold)

- \_\_\_ Science Fiction Reading Selection (B.12.5)
- \_\_\_ Science Non-Fiction Reading Selection (B.12.2-5)
- \_\_\_ Science & Society: Career Research (A.12.5, G.12.1) (EE B.12.21-22)
- \_\_\_ Science & Society: Community Expert Interview (H.12.2)
- \_\_\_ Science & Society: Journal Article (C.12.7, G.12.4)
- \_\_\_ Science & Society: News Report (C.12.7)
- \_\_\_ Science & Society: Local Issue (A.12.1-2, G.12.5, H.12.2-3) (EE C.12.1-4) (EE D.12.1.-9)
- \_\_\_ Science & Society: Regional Issue (B.12.1, G.12.5, H.12.2-3) (EE C.12.1-4) (EE D.12.1.-9)
- \_\_\_ Science & Society: Environmental Stewardship Plan (EE E.12.1-3) (EE D.12.1.-9)

## Science Skills

(All students will cover 5 of 7 items, including all items in bold)

- \_\_\_ **Measurement for Science Data Collection (A.12.3)**
- \_\_\_ **Scientific Method (A.12.6-7, C.12.1-7, H.12.4-7) (EE A.12.1-5)**

- \_\_\_ Global Positioning System (B.12.4)
- \_\_\_ Weather Monitoring (B.12.4)
- \_\_\_ Data Collection: Pedology (C.12.4)
- \_\_\_ Data Collection: Hydrology (C.12.4)
- \_\_\_ Data Collection: Forestry (C.12.4)

## 6<sup>th</sup>-8<sup>th</sup> Grade Social Studies

The categories of study found in social studies are modeled after the categories of model academic standards identified by the Wisconsin Department of Public Instruction. All NCSS middle school students are expected to complete both a minimum number of hours of study, as well as covering a minimum number of items, within each category. Students are expected to document at least 250 hours of study in the area of social studies. The breakdowns of the hour requirements for the entire 6th-8th grade span are as follows:

- Geography: 75 hours**
- History: 75 hours**
- Political Science & Citizenship: 40 hours**
- Economics: 40 hours**
- Behavior Science: 20 hours**

### Geography

(All students will cover 10 of 13 items, including all items in bold)

- \_\_\_ **5 themes of geography (B.8.12)**
- \_\_\_ Climate (A.8.5,6)
- \_\_\_ **Mapping and other visual representation (A.8.2,3)**
- \_\_\_ Explore, learn, and communicate about a place using a variety of geographic representations. (A.8.1,2)
- \_\_\_ Wisconsin land use issue (A.8.4)
- \_\_\_ North American land use issue (A.8.5)
- \_\_\_ Global land use issue (A.8.5)
- \_\_\_ Human migration topic (A.8.7)
- \_\_\_ Natural forces that effect earth's environment (A.8.6)
- \_\_\_ Choice cultural geography topic: \_\_\_\_\_ (A.8.8-10)
- \_\_\_ Choice physical geography topic: \_\_\_\_\_ (A.8.1,5,6,10)
- \_\_\_ **Effect of science and technology on physical and human environment. (A.8.10;B.8.8)**
- \_\_\_ Global issues exploration: causes, consequence, and commentary. (A.8.11)

### History

(All students will cover 14 of 18 items, including all items in bold)

- \_\_\_ Pre-statehood topic
- \_\_\_ Wisconsin political history topic
- \_\_\_ Wisconsin tribal sovereignty
- \_\_\_ **Choice Wisconsin history**
- \_\_\_ Colonial topic
- \_\_\_ American Revolution to Civil War topic
- \_\_\_ Reconstruction to World War I topic
- \_\_\_ 20<sup>th</sup> Century American History Topic

- \_\_\_\_\_ Prehistory topic (world history)
- \_\_\_\_\_ Classical civilizations (1000 BC to 1000 AD)
- \_\_\_\_\_ Early modern world topic (1400 – 1800 AD)
- \_\_\_\_\_ Global encounters, unrest, change or interdependence (1750-present)
  
- \_\_\_\_\_ Skill: Identify significant events and people in the major eras of American history. (B.8.7)
- \_\_\_\_\_ Skill: Identify significant events and people in the major eras of world history. (B.8.7)
- \_\_\_\_\_ **Skill: Interpret a historical event or era using a variety of sources. (B.8.1)**
- \_\_\_\_\_ **Skill: Construct cause and effect arguments linking historical eras. (B.8.2,3)**
- \_\_\_\_\_ Skill: Explain how historical events can be interpreted differently. (B.8.4)
- \_\_\_\_\_ Skill: Analyze political values embedded in historical documents. (B.8.6)

### **Political Science and Citizenship**

(All students will cover 9 of 12 items, including all items in bold)

- \_\_\_\_\_ Democratic political systems (C.8.1)
- \_\_\_\_\_ **Local government structure (C.8.4)**
- \_\_\_\_\_ State government structure (C.8.4)
- \_\_\_\_\_ State Supreme Court case study (C.8.3,7,8)
- \_\_\_\_\_ **U.S. Constitution (C.8.2,3,4,5)**
- \_\_\_\_\_ Supreme Court case study (C.8.2,3,7,8)
- \_\_\_\_\_ **Local political topic (C.8.7,8)**
- \_\_\_\_\_ State political topic (B.8.5; C.8.7,8)
- \_\_\_\_\_ National political topic (B.8.5; C.8.7,8)
- \_\_\_\_\_ International political topic (C.8.9)
- \_\_\_\_\_ Political parties and interest groups in American politics (C.8.6)
- \_\_\_\_\_ Legal issues related to science and technology (B.8.9)

### **Economics**

(All students will cover 6 of 9 items, including all items in bold)

- \_\_\_\_\_ **Basic economic concepts of capital, currency, supply and demand. (D.8.1,2)**
- \_\_\_\_\_ Investments (D.8.1,2,4)
- \_\_\_\_\_ **Interest (D.8.1,2)**
- \_\_\_\_\_ Economics related to local or regional environment (D.8.3,7)
- \_\_\_\_\_ Economics related to national or international environment (D.8.3,7)
- \_\_\_\_\_ **Economics in your home (D.8.8, 11)**
- \_\_\_\_\_ Economics in the workplace/career exploration (D.8.9,10)
- \_\_\_\_\_ Poverty (D.8.6)
- \_\_\_\_\_ Government influence on the economy (D.8.5)

### **Behavior Science**

(All students will cover 6 of 9 items, including all items in bold)

- \_\_\_\_\_ Influences on individual learning (E.8.1)
- \_\_\_\_\_ Personality (E.8.1,2)
- \_\_\_\_\_ **Culture and individual identity or development (E.8.3,5)**
- \_\_\_\_\_ Racial or ethnic groups of Wisconsin and beyond (E.8.9)

- \_\_\_\_\_ Culture and conflict (E.8.6,7,10,11)
- \_\_\_\_\_ Media and individual behavior (E.8.8)
- \_\_\_\_\_ Social change (E.8.4)
- \_\_\_\_\_ Peer mediation (E.8.12)
- \_\_\_\_\_ Cooperation and interdependence (B.8.10; E.8.14)

## 9<sup>th</sup>-12<sup>th</sup> Grade Social Studies

The categories of study found in social studies are modeled after the categories of model academic standards identified by the Wisconsin Department of Public Instruction. All NCSS students are expected to complete project work in each of these areas in order to earn their high school diploma. Students will be required to complete both a minimum number of hours of study, as well as covering a minimum number of items, within each category. The following hour requirements are for the entire 9<sup>th</sup>-12<sup>th</sup> grade career of each graduating student:

- Geography: 100 hours**
- History: 100 hours**
- Political Science & Citizenship: 50 hours**
- Economics: 50 hours**
- Behavior Science: 50 hours**

Students planning on applying to a four year university should strive to complete all items within each of the five categories at an advanced or mastery level.

### Geography

(All students will cover 12 of 15 items, including all items in bold)

- \_\_\_\_\_ **5 themes of geography (A.12.1)**
- \_\_\_\_\_ Computer mapping/GIS (A.12.2,3)
- \_\_\_\_\_ Explore, learn, and communicate about a place using a variety of geographic representations. (A.12.1,2)
- \_\_\_\_\_ World's major ecosystems (A.12.8)
- \_\_\_\_\_ Human population (A.12.4)
- \_\_\_\_\_ **Environmental change (A.12.6)**
- \_\_\_\_\_ Rhinelander or Oneida County land use issue (A.12.12)
- \_\_\_\_\_ **Wisconsin land use issue (A.12.12)**
- \_\_\_\_\_ North American land use issue (A.12.12)
- \_\_\_\_\_ International land use issue (A.12.12)
- \_\_\_\_\_ Culture and architecture or city planning (A.12.9)
- \_\_\_\_\_ **Cultural ethics & values and science & technology (A.12.10)**
- \_\_\_\_\_ **Effect of science/technology on physical and human environment. (A.12.11)**
- \_\_\_\_\_ Global conflict and cooperation: causes, consequence, and commentary. (A.12.13)
- \_\_\_\_\_ Physical geography topic (A.12.6)

### History

(All students will cover 13 of 17 items, including all items in bold)

- \_\_\_\_\_ Family history (B.12.2)

- \_\_\_\_\_ Oneida County or Northern Wisconsin history topic (B.12.3,8)
- \_\_\_\_\_ Wisconsin history topic (B.12.8,9)
- \_\_\_\_\_ **American Indian Tribes in Wisconsin (B.12.12)**
- \_\_\_\_\_ Significance of WWII (B.12.5)
- \_\_\_\_\_ Deciding to go to war or not (B.12.11)
- \_\_\_\_\_ Scientific, intellectual or religious change in history (B.12.10)
- \_\_\_\_\_ Slavery and discrimination (B.12.18; C.12.15)
- \_\_\_\_\_ Holocaust and genocide (C.12.15)
- \_\_\_\_\_ Rise and decline of empire (B.12.13)
- \_\_\_\_\_ Origins and influences of major religions (B.12.14)
- \_\_\_\_\_ National interests and global interests (B.12.16, 17)
- \_\_\_\_\_ Taking a stand in history (B.12.15)
- \_\_\_\_\_ **Skill: Analyze significant historical periods and the relationships among them (B.12.3)**
- \_\_\_\_\_ **Skill: Explain different viewpoints on single event using primary sources (B.12.1)**
- \_\_\_\_\_ **Skill: Analyze a piece of historical fiction (B.12.2,7)**
- \_\_\_\_\_ **Skill: Assess validity of different interpretations of a single historical event (B.12.4)**

### **Political Science and Citizenship**

(All students will cover 12 of 16 items, including all items in bold)

- \_\_\_\_\_ **Compare political systems (C.12.2,5,13)**
- \_\_\_\_\_ **Local government structure (C.12.1)**
- \_\_\_\_\_ **State government structure (C.12.1)**
- \_\_\_\_\_ Tension and abuse in government (C.12.4)
- \_\_\_\_\_ Benefits and problems of Federalism and separation of powers (C.12.6)
- \_\_\_\_\_ **The evolving U.S. Constitution (B.12.6, C.12.3)**
- \_\_\_\_\_ **Local political topic (C.12.10)**
- \_\_\_\_\_ State political topic (C.12.10))
- \_\_\_\_\_ National political topic (C.12.10)
- \_\_\_\_\_ Major party evolution (C.12.7)
- \_\_\_\_\_ Third parties (C.12.7)
- \_\_\_\_\_ International organizations (C.12.12)
- \_\_\_\_\_ Issue speech (C.12.8)
- \_\_\_\_\_ Advocates/Lobbyists (C.12.9, 11)
- \_\_\_\_\_ Civil Rights and similar movements (C.12.14,16)
- \_\_\_\_\_ Media and politics (C.12.9, 10, 11)

### **Economics**

(All students will cover 11 of 15 items, including all items in bold)

- \_\_\_\_\_ **Personal banking (D.12.1)**
- \_\_\_\_\_ **Types of economies (D.12.7)**
- \_\_\_\_\_ **Financial institutions (D.12.9, 14)**
- \_\_\_\_\_ Comparative economics (regions or time) (D.12.2)
- \_\_\_\_\_ Socially responsible or socially conscious investing (D.12.4,6,10,12)
- \_\_\_\_\_ **Interest rates and investing (D.12.1,11)**
- \_\_\_\_\_ Economics related to local or regional environment (D.12.3)
- \_\_\_\_\_ Economics related to national or international environment (D.12.3)

- \_\_\_\_\_ Home ownership (D.12.1,11)
- \_\_\_\_\_ Economics of energy (D.12.4,10,13)
- \_\_\_\_\_ Entrepreneurship (D.12.1,4,10)
- \_\_\_\_\_ Management and organized labor (D.12.14)
- \_\_\_\_\_ International trade (D.12.8,13)
- \_\_\_\_\_ Unequal distribution of wealth or natural resources/Poverty (D.12.12)
- \_\_\_\_\_ Government influence on the economy (D.12.5,8,11,14)

### **Behavior Science**

(All students will cover 11 of 15 items, including the one item in bold)

- \_\_\_\_\_ Human brain and learning (E.12.1)
- \_\_\_\_\_ Influences on individual development (E.12.2)
- \_\_\_\_\_ Mental health (E.12.16)
- \_\_\_\_\_ Culture and individual rights and responsibilities (E.12.3)
- \_\_\_\_\_ Culture and conflict (E.12.11)
- \_\_\_\_\_ Cultural assimilation (E.12.8)
- \_\_\_\_\_ Cultural preservation (E.12.8)
- \_\_\_\_\_ Research on media and individual behavior (E.12.7, 14)
- \_\_\_\_\_ Universal theme across cultures (E.12.13)
- \_\_\_\_\_ Eliminating prejudice (E.12.12)
- \_\_\_\_\_ Belief systems (E.12.17)
- \_\_\_\_\_ Case study of a foreign culture (E.12.10)
- \_\_\_\_\_ Institutional change (E.12.5)
- \_\_\_\_\_ Institutions and social change (E.12.4)
- \_\_\_\_\_ **Defend a point of view on an ethical issue (E.12.9)**