

IOWA CORE CURRICULUM

READING:

Essential Concepts and/or Skills –

Grades K-2:

- + Demonstrate an understanding of written language and the relationship of letters and words to the sounds of speech.
- + Use multiple decoding strategies to read words in text.
- + Independently read a significant number of books and texts each year. This includes reading both fiction and nonfiction in a variety of genres.
- + Read for a variety of purposes and across content areas.
- + Use a variety of skills and strategies to comprehend nonfiction and informational text.
- + Use a variety of strategies and skills to comprehend and interpret fiction.
- + Read with fluency silently and aloud to support comprehension.
- + Use a variety of strategies to develop and expand reading vocabulary.

Grades 3-5:

- + Use multiple decoding strategies to read words in text.
- + Independently read a significant number of books and texts each year. This includes reading both fiction and nonfiction in a variety of genres.
- + Read for a variety of purposes and across content areas.
- + Use a variety of skills and strategies to comprehend nonfiction and informational text.
- + Use a variety of strategies and skills to comprehend and interpret fiction.
- + Read with fluency silently and aloud to support comprehension.
- + Use a variety of strategies to develop and expand reading vocabulary.

READING:

Essential Concepts and/or Skills –

Grades 6-8:

- + Independently reads a significant number of books and text each year. This reading should include both fiction and nonfiction in a variety of genres.
- + Read for a variety of purposes and across content areas.
- + Use a variety of skills and strategies to comprehend nonfiction and informational text.
- + Use a variety of strategies and skills to comprehend and interpret fiction.
- + Read with fluency silently and aloud to support comprehension.
- + Use a variety of strategies to develop and expand reading vocabulary.

Grades 9-12:

- + Independently read a significant number of books and texts each year. This reading should include both fiction and nonfiction in a variety of genres.
- + Read for a variety of purposes and across content areas.
- + Use a variety of skills and strategies to comprehend complex nonfiction and informational text.
- + Use a variety of strategies and skills to comprehend and interpret complex literature.
- + Read with fluency silently and aloud to support comprehension.
- + Use a variety of strategies to understand unfamiliar vocabulary found in narrative text, technical reading, and literary text.

IOWA CORE CURRICULUM MATHEMATICS (Numbers and Operations)

Essential Concepts and/or Skills –

GRADES K-2:

- + Count, represent, read, compare, order and conserve (knows that the total number does not change when configured differently) whole numbers.
- + Develop understandings of addition and subtraction and strategies for basic addition facts and related subtraction facts.
- + Express numbers as equivalent representations to fluently compose and decompose numbers (putting together and taking apart).
- + Develop fluency and quick recall of addition facts and related subtraction facts and fluency with multi-digit addition and subtraction.
- + Estimate the answer to an addition or subtraction problem before computing, and determine whether the computed answer makes sense.
- + Develop an understanding of whole number relationships, including grouping in tens and ones and apply place-value concepts.
- + Understand fractional parts are equal shares or equal portions of a whole unit (a unit can be an object or a collection of things).

Grades 3-5:

- + Develop an understanding of multiplication and division concepts and strategies for basic multiplication facts and related division facts.
- + Develop fluency and quick recall of multiplication facts and related division facts and fluency with multi-digit multiplication and division.
- + Develop the ability to estimate the results of computation with whole numbers, fractions or decimals and be able to judge reasonableness.
- + Extend place value concepts to represent and compare both whole numbers and decimals.
- + Use benchmarks to help develop number sense.
- + Develop an understanding of commonly used fractions, decimals, and percents, including recognizing and generating equivalent representations.
- + Develop an understanding of and fluency with addition and subtraction of fractions and decimals.

Mathematics:

Essential Concepts and/or Skills

Grades 6-8:

- Understand, apply, and be computationally fluent with multiplication and division of fractions and decimals.
- Understand, apply, and be computationally fluent with rational numbers, including negative numbers.
- Understand and apply ratio and rate, including percents, and connect ratio and rate to fractions and decimals.
- Understand and apply proportional reasoning.
- Understand, estimate, and represent real numbers, including common irrational numbers and with scientific notation.

Grades 9-12:

- Understand and apply number operations and properties.
- Understand and apply some basic mathematics of decision making in a democratic society.
- Understand and apply some basic mathematics of information processing and Internet.
- Understand and apply the mathematics of systematic counting.

