



Critical Outcomes

Grade 4

Mathematics

Number and Operation Strand

The student will...

- Demonstrate mastery of multiplication facts (1-10)
- Demonstrate mastery of division basic facts (1-10)
- Multiply multi-digit numbers
- Solve multi-step word problems
- Use a variety of strategies to check the reasonableness of products and quotients
- Represent and compare fractions and decimals in real-world and mathematical situations
- Use place value to understand how decimals represent quantities
- Add and subtract fractions with like denominators in real-world and mathematical situations

Algebra Strand

The student will...

- Use input-output rules, tables and charts to represent patterns and relationships and to solve real-world and mathematical problems
- Use number sentences to represent and solve real-world and mathematical problems, involving multiplication, division and unknowns; create real-world situations corresponding to number sentences

Geometry and Measurement Strand

The student will...

- Name, describe, classify and sketch polygons
- Measure, compare, and classify angles in real-world and mathematical objects
- Find and label the areas of geometric figures and real-world objects that can be divided into rectangular shapes
- Use translations, reflections and rotations to explain congruency and symmetry

Data Analysis and Probability Strand

The student will...

- Collect, organize, display and interpret data

Language Arts

Reading

The student will...

- Apply context clues, word parts, and phonics to determine meaning of unknown words and expand vocabulary
- Follow written instructions
- Identify author's viewpoint
- Identify main idea and supporting details in fiction and non-fiction
- Use comprehension strategies when reading fiction and non-fiction material: Predict, Infer, Monitor, Summarize, Evaluate
- Read grade level materials with fluency and expression

Writing

The student will...

- Record and organize facts for a report
- Summarize information presented and be able to ask appropriate questions related to topic
- Write a business letter in standard format
- Write a paragraph using a topic sentence, supporting details, and a concluding sentence
- Write a variety of poetry formats
- Write consistently with complete sentences in all subject areas
- Write for various purposes and audiences:
 - persuasive, personal narrative, descriptive and demonstration
- Write legibly in cursive
- Write using word choice, voice, ideas, organization, sentence fluency, conventions

- Write using the steps of the writing process with emphasis on revision:
 - prewriting - planning strategies such as brainstorming, journaling, sketching, listing, outlining and determining audience, purpose and focus
 - drafting - organizing, supporting and putting ideas into sentences and paragraphs
 - revising - improving the quality of content, organization, sentence structure and word choice
 - editing - correcting errors in spelling and grammar
 - publishing - producing a document and sharing the writing with the audience

Listening

The student will...

- Summarize information presented and be able to ask appropriate questions related to topic
- Demonstrate listening comprehension

Speaking

The student will...

- Answer questions from the audience after doing a presentation
- Demonstrate cooperative group roles within a small group
- Make a clear main point when presenting to others
- Read expressively to others
- Use effective delivery techniques:
 - eye contact, clear articulation, speed, expression, and volume

Science

The student will...

- Conduct scientific experiments or investigations
- Describe the impact humans have on the environment
- Demonstrate an understanding of basic Earth materials and their formation
- Demonstrate an understanding of electricity and magnetism



Critical Outcomes

Grade 4

Library Media

Progress on these outcomes is assessed and reported as part of a variety of curriculum areas.

Reading and Media Literacy

The student will...

- Independently, routinely, efficiently and appropriately select and read materials
- Critically evaluate a variety of print and multimedia formats
- Create a product using a variety of media forms to demonstrate learning

Research

The student will...

- Generate feasible, researchable questions
- Gather information from multiple sources to answer a question
- Organize and interpret the information to draw conclusions and answer the question
- Communicate research findings in a format appropriate to both the audience and the message
- Reflect on process and generate questions related to findings

Responsible Use of Information and Technology

The student will...

- Access resources safely and ethically
- Use school resources responsibly
- Use resources to learn both independently and in collaboration with others

Technology

The student will...

- Demonstrate fluency in selecting and using appropriate technology for educational and personal goals

Social Studies

The student will...

- Discuss local, state, national and world current events
- Locate and interpret information from various kinds of maps
- Demonstrate an understanding of the five regions of the United States

Health

The student will...

- Analyze issues of safety in a school or community situation
- Demonstrate bus and pedestrian safety
- Demonstrate an understanding of what to do in case of sudden illness or injury
- Demonstrate an understanding of skills involved in conflict management strategies (active listening, negotiation, and compromise)

Physical Education

The student will...

- Continue to develop and display loco-motor and non-loco-motor skills during activities
- Catch and throw various objects with increasing velocity, distance, and accuracy
- Demonstrate dance styles from more than one form or tradition
- Demonstrate stretches for particular muscles
- Evaluate and improve physical fitness level as assessed by age-appropriate National Fitness Standards
- Participate in leisure activities outside of school
- Use problem-solving skills during team-building activities
- Demonstrate age-appropriate physical fitness level
- Understand rules and vocabulary of team games
- Demonstrates sportsmanship and teamwork in a class setting

4th Grade Orchestra

Performs

The student will...

- Perform simple rhythmic, melodic and harmonic patterns on instrument

Reads

The student will...

- Read music in treble, alto, or bass clef using whole, half, quarter, and eighth notes and corresponding rests in 2/4, 3/4, and 4/4 meter
- Read scales: C, D, and G

Music

Performs

The student will...

- Play simple accompaniments on classroom instruments.
- Sing expressively with varying dynamics (loudness) and tempo (speed).
- Sing accurately alone and with others.

Creates

The student will...

- Improvise and compose simple rhythms and melodies in a pentatonic scale.

Reads and Writes

The student will...

- Read and notate simple melodies and rhythms using whole, half, quarter, eighth notes and corresponding rests in 2/4, 3/4 and 4/4 meter
- Read and notate simple melodies and rhythms

Responds

The student will...

- Visually identify individual instruments in their orchestral families

Art

The student will...

- Become aware of principles of visual art including contrast, variety, pattern, unity/harmony, emphasis, proportion, balance, movement, and rhythm
- Understand and apply cultural and historical forms or traditions of visual arts
- Understand and demonstrate elements of visual art including color, line, shape, form, space, value, and texture
- Demonstrate the elements of space and texture
- Demonstrate the principles of contrast and movement

PYP Spanish

The student will...

- Develop listening, speaking, reading and writing proficiency