



# What every KINDERGARTEN student should know and be able to do!

## A Message To The Reader

This resource is provided by Mesa Public Schools. It contains the kindergarten expectations for English Language Arts, Mathematics, Science, and Social Studies. The goal for Mesa Public Schools is to help all students be successful and ready to move forward to the next grade level.

These skills and expectations are aligned to the Arizona Standards and our district adopted curriculum. Each standard builds on the standard that came before and toward the standard that comes in the next grade level.

For additional information on grade-level readiness, please visit the National Parent Teacher Association, <https://www.pta.org/docs/default-source/uploadedfiles/k-june20>

## ENGLISH LANGUAGE ARTS

The 2016 Arizona English Language Arts standards include reading and writing foundational skills to help put your child on the path to academic success. Daily reading and writing practice is an important component for grade-level readiness.

Students should know and be able to . . .

### Print Concepts

- follow words from left to right and top to bottom
- identify that a sentence is made-up of a group of words
- understand that words are separated by spaces in print
- recognize and name upper and lowercase letters

### Phonological Awareness

- produce sounds in a spoken word
- recognize and produce rhyming words
- count, pronounce, blend, and segment blend syllables in spoken words
- segment one-syllable words into sounds
- recognize new words are created when letter sounds are changed, added, or removed

### Phonics and Word Recognition

- say the letter sounds represented by single consonants and the five major vowels
- read simple words with short vowels
- read high-frequency words by sight

### Fluency

- read and understand kindergarten texts

### Literature (fiction)

- ask and answer questions about details in a story
- retell familiar stories, including key details
- identify characters, setting, and major events in a story
- ask and answer questions about unknown words in a story
- name and define the role of author and illustrator
- compare and contrast the adventures and experiences of characters in familiar stories

### Informational Text (nonfiction)

- ask and answer questions about key details
- identify the main topic and key details of a text
- describe the connection between two individuals, events, ideas, or pieces of information
- ask and answer questions about unknown words in a text
- identify the parts of a book
- describe the relationships between pictures and texts

### Sound-letter Basics and Handwriting

- write upper and lower manuscript letters
- write left to right using appropriate spacing between words
- demonstrate and understand that each syllable is organized around a vowel sound

### Spelling

- use letter-sound relationships when writing words and attempt phonetic spelling of unknown words
- spell single syllable words with short vowels
- accurately write grade-level appropriate words

### Writing

- use a combination of drawing, dictating, and writing to compose:
  - an opinion piece with a preference about a topic or book
  - an informative piece with information about the topic
  - a narrative including supporting details
- with guidance and support:
  - produce writing in which the development and organization are appropriate to the task and purpose
  - respond to questions and suggestions from peers and add details to strengthen writing
  - use a variety of digital tools to produce and publish writing
  - participate in shared research and writing projects

### Speaking and Listening

- participate in collaborative conversations and continue a conversation through multiple exchanges
- ask and answer questions to seek help or get information
- describe familiar people, places, things, and events
- speak clearly to express thoughts, feelings, and ideas

### Language

- use standard English grammar when writing or speaking
- use capitalization, punctuation, and spelling when writing
- use prepositions (e.g., in, on, under)
- develop strategies for finding meaning
- use words and phrases acquired through conversations and reading of books

## MATH

The goal of MPS is for every child to develop a deep understanding of mathematical concepts and procedures, while discovering connections to other subjects through real-life problem solving. Students should know and be able to ...

### Counting and Cardinality

- read and write numbers to 20
- count to 100 by ones and tens
- order and compare numbers to 10

### Operations and Algebraic Thinking

- create all combinations for the numbers 0–10 using objects or drawings (e.g.  $5 = 2 + 3$ ,  $5 = 4 + 1$ )
- understand the concepts of addition and subtraction
- solve addition and subtraction word problems using objects or drawings
- fluently add and subtract within 5

### Number and Operations in Base Ten

- compose and decompose numbers 11–19 using a ten and additional ones

### Measurement and Data

- describe measurable attributes of objects such as length and weight

### Measurement and Data - continued

- compare 2 objects to see which object has “more than” or “less than” of a measurable attribute
- classify, sort, and count sets of less than 10 objects

### Geometry

- describe objects in the environment using shape names and position words, e.g. above, below, beside, in front of, behind, and next to
- identify and name 2 and 3 dimensional shapes
- build, draw, compare, describe, and sort 2-dimensional figures
- analyze and compare 2 and 3-dimensional shapes
- combine simple shapes to form larger shapes

### Mathematical Practices

- apply the eight Standards for Mathematical Practice such as problem solving, modeling, and logical reasoning to solve math problems

## SCIENCE

Students should know and be able to ...

### Inquiry Process

- make observations
- ask questions and predict results
- participate in guided investigations
- follow safe science procedures
- use simple measurement
- communicate observations

### History and Nature of Science

- understand that all people can and do participate in science

### Personal and Social Perspectives

- describe how simple tools make tasks easier

### Life Science

- distinguish between living and nonliving things
- describe the basic needs of living things
- identify body parts and the five senses
- describe changes in a small system

### Physical Science

- compare objects using observation
- investigate forces such as magnetic, push and pull, and static electricity

### Earth and Space Science

- identify basic properties of rocks, soil, and water
- identify types of weather and observable changes in weather

## SOCIAL STUDIES

Students should know and be able to ...

### American History

- sequence historical events, use primary sources and discuss current local events (*These skills are repeated in World History.*)
- recognize Native Americans as original inhabitants of North America
- recognize explorers traveled to new places and astronauts are explorers of space
- recognize our first president and nation’s birthday

### World History

- recognize early civilizations moved from place to place and improved their lives
- recognize explorers traveled to new places

### Civics/Government

- recognize national symbols, icons, and holidays
- identify Washington, Lincoln, and the current President and Governor
- identify examples of responsible citizenship

### Civics/Government - continued

- recognize rights and responsibilities of citizenship
- identify people who keep the community safe

### Geography

- recognize differences between maps and globes, and construct map of a familiar place
- locate continents and oceans on a map or globe
- discuss food, clothing, housing, recreation, and celebrations of cultural groups in community
- discuss how land is used in the community and how people earn a living
- identify origin of natural resources and that resources are renewable, recyclable, and non-renewable

### Economics

- discuss different types of jobs
- discuss needs and wants
- recognize people use money to purchase goods and services