



Head Start Child Outcomes Framework Alignment with Zula Exploration Mission Modules

SM = Simple Machines Exploration Mission Module

MSCR = Mixtures, Solutions, and Chemical Reactions Exploration Mission Module

FR = Force Exploration Mission Module

HB = Habitats Exploration Mission Module

MA = Matter Exploration Mission Module

LT = Light Exploration Mission Module

H₂O = Water Exploration Mission Module

PALC = Plants, Animals, and Life Cycles Mission Module

All = All current and future Zula activities and lesson plans

FK = Future Mission Exploration Modules

Language Development

Listening & Understanding

- Demonstrates increasing ability to attend to and understand conversations, stories, songs, and poems. (All)
- Shows progress in understanding and following simple and multi-step directions. (All)
- Understands an increasingly complex and varied vocabulary. (All)

Speaking and Communication

- Develops increasing abilities to understand and use language to communicate information, experiences, ideas, feelings, opinions, needs, questions and for other varied purposes. (All)
- Progresses in abilities to initiate and respond appropriately in conversation and discussions with peers and adults. (All)
- Uses an increasingly complex and varied spoken vocabulary. (All)
- Progresses in clarity of pronunciation and towards speaking in sentences of increasing length and grammatical complexity. (All)

Literacy

Book Knowledge and Appreciation

- Shows growing interest and involvement in listening to and discussing a variety of fiction and non-fiction books and poetry. (All)
- Shows growing interest in reading-related activities, such as asking to have a favorite book read; choosing to look at books; drawing pictures based on stories; asking to take books home; going to the library; and engaging in pretend-reading with other children. (All)
- Demonstrates progress in abilities to retell and dictate stories from books and experiences; to act out storied in dramatic play; and to predict what will happen next in a story. (All)
- Progresses in learning how to handle and care for books; knowing to view one page at a time in sequence from front to back; and understanding that a book has a title, author and illustrator. (All)

Print Awareness & Concepts

- Shows increasing awareness of print in classroom, home and community settings. (All)
- Demonstrates increasing awareness of concepts of print, such as that reading in English moves from top to bottom and from left to right, that speech can be written down, and that print conveys a message. (All)
- Shows progress in recognizing the association between spoken and written words by following print as it is read aloud. (All)

Early Writing

- Develops understanding that writing is a way of communicating for a variety of purposes. (All)
- Begins to represent stories and experiences through pictures, dictation, and in play. (All)
- Experiments with a growing variety of writing tools and materials, such as pencils, crayons, and computers. (All)
- Progresses from using scribbles, shapes, or pictures to represent ideas, to using letter like symbols, to copying or writing familiar words such as their own name. (All)

Mathematics

Number & Operations

- Demonstrates increasing interest and awareness of numbers and counting as a means for solving problems and determining quantity. (SM, FK)
- Begins to associate number concepts, vocabulary, quantities and written numerals in meaningful ways. (All)
- Develops increasing ability to count in sequence to 10 and beyond. (SM, FK)
- Begins to make use of one-to-one correspondence in counting objects and matching groups of objects. (SM, HB, PALC, FK)
- Begins to use language to compare numbers of objects with terms such as more, less, greater than, fewer, equal to. (SM, FK)
- Develops increased abilities to combine, separate and name “how many” concrete objects. (SM, MSCR, FK)

Geometry and Spatial Sense

- Begins to recognize, describe, compare and name common shapes, their parts and attributes. (SM, FK)
- Progresses in ability to put together and take apart shapes. (SM, FK)
- Begins to determine whether or not two shapes are the same size and shape. (SM, FK)
- Show growth in matching, sorting, putting in a series and regrouping objects according to one or two attributes such as color, shape, or size. (SM, HB, FK)
- Builds an increasing understanding of directionality, order, and positions of objects, and words such as up, down, over, under, top, bottom, inside, outside, in front and behind. (SM, FR, FK)

Patterns & Measurement

- Enhances abilities to recognize, duplicate and extend simple patterns using a variety of materials. (SM, FK)
- Shows increasing abilities to match, sort, put in a series, and regroup objects according to one or two attributes such as shape or size. (SM, PALC, FK)
- Begins to make comparisons between several objects based on a single attribute. (SM, FK)
- Shows progress in using standard and non-standard measures for length and area of objects. (SM, FR, FK)

Science

Scientific Skills & Methods

- Begins to use senses and a variety of tools and simple measuring devices to gather information, investigate materials and observe processes and relationships. (All)
- Develops increased ability to observe and discuss common properties, differences and comparisons among objects and materials. (All)
- Begins to participate in simple investigations to test observations, discuss and draw conclusions and form generalizations. (All)
- Develops growing abilities to collect, describe and record information through a variety of means, including discussion, drawings, maps and charts. (All)
- Begins to describe and discuss predictions, explanations and generalizations based on past experiences. (All)

Scientific Knowledge

- Expands knowledge of and abilities to observe, describe and discuss the natural world, materials, living things and natural processes. (All)
- Expands knowledge of and respect for their body and the environment. (FK)
- Develops growing awareness of ideas and language related to attributes of time and temperature. (FK)
- Shows increased awareness and beginning understanding of changes in materials and cause-effect relationships. (All)

Creative Arts

Art

- Gains ability in using different art media and materials in a variety of ways for creative expression and representation. (All)
- Progresses in abilities to create drawings, paintings, models, and other art creations that are more detailed, creative or realistic. (All)
- Develops growing abilities to plan, work independently, and demonstrate care and persistence in a variety of art projects. (All)

Social & Emotional Development

Self Concept

- Begins to develop and express awareness of self in terms of specific abilities, characteristics and preferences. (All)
- Develops growing capacity for independence in a range of activities, routines, and tasks. (All)
- Demonstrates growing confidence in a range of abilities and expresses pride in accomplishments. (All)

Self Control

- Demonstrates increasing capacity to follow rules and routines and use materials purposefully, safely, and respectfully. (All)

Cooperation

- Increases abilities to sustain interactions with peers by helping, sharing and discussion. (All)
- Shows increasing abilities to use compromise and discussion in working, playing and resolving conflicts with peers. (All)
- Develops increasing abilities to give and take in interactions; to take turns in games or using materials; and to interact with out being overly submissive or directive. (All)

Social Relationships

- Demonstrates increasing comfort in talking with and accepting guidance and directions from a range of familiar adults. (All)

Knowledge of Families & Communities

- Develops growing awareness of jobs and what is required to perform them. (All)

Approaches To Learning

Initiative & Curiosity

- Chooses to participate in an increasing variety of tasks and activities. (All)
- Approaches tasks and activities with increased flexibility, imagination and inventiveness. (All)
- Grows in eagerness to learn about and discuss a growing range of topics, ideas and tasks. (All)

Engagement & Persistence

- Grows in abilities to persist in and complete a variety of tasks, activities, projects and experiences. (All)
- Demonstrates increasing ability to set goals and develop and follow through on plans. (All)
- Shows growing capacity to maintain concentration over time on a task, question, set of directions or interactions, despite distractions and interruptions. (All)

Reasoning & Problem Solving

- Develops increasing ability to find more than one solution to a questions, task or problem. (All)
- Grows in recognizing and solving problems through active exploration, including trial and error, and interactions and discussions with peers and adults. (All)
- Develops increasing abilities to classify, compare and contrast objects, events and experiences. (All)

Physical Health & Development

Fine Motor Skills

- Develops growing strength, dexterity and control needed to use tools such as scissors, paper punch, stapler, and hammer. (All)
- Grows in hand-eye coordination in building with blocks, putting together puzzles, reproducing shapes and patterns, stringing beads and using scissors. (All)
- Progresses in abilities to use writing, drawing, and art tools including pencils, markers, chalk, paint brushes, and various types of technology. (All)