



### **Simple Machines Explorer Kit and Launch Pad for Learning Sample Alignment with Georgia Pre-K Guidelines**

LPFL = Launch Pad for Learning Sampler activity kit (with 15 level 1-PreK and 15 level 2-K-2 sun, clouds, moon, stars, and sensory discovery activities)—currently available

SM = Simple Machines Exploration Mission curriculum (with 3 lesson plans focusing on wheel/axle/screw, lever and pulley, and wedge and inclined plane)—currently available

All = All current and future Zula activities and lesson plans

FK = Future Mission Exploration Kit (curriculum programs)

#### **Language and Literacy Development**

Standard LD 1: Children will develop skills in listening for the purpose of comprehension

- Indicator LD 1 a - Listens to and follows spoken directions (All)
- Indicator LD 1 b - Responds to questions (All)
- Indicator LD 1 c - Listens to stories read aloud and shows understanding through body language or by interacting appropriately (All)
- Indicator LD 1 f - Makes predictions from pictures and titles (All)
- Indicator LD 1 g - Uses pictures or symbols to identify concepts (All)
- Indicator LD 1 h - Becomes increasingly familiar with the structure of stories (All)

Standard LD 2: Children will learn to discriminate the sounds of language (phonological awareness)

- Indicator LD 2 b - Repeats rhymes, poems and finger plays (SM, LPFL, FK)

Standard LD 3: Children will develop an understanding of new vocabulary introduced in conversations, activities, stories or books

- Indicator LD 3 a - Increases vocabulary through everyday communication (All)
- Indicator LD 3 b - Uses new vocabulary words correctly within the context of play or other classroom experiences (All)

Standard LD 4: Children will develop and expand expressive language skills (speaking)

- Indicator LD 4 a - Uses language for a variety of purposes (All)
- Indicator LD 4 b - Engages in conversations with adults and children (All)
- Indicator LD 4 c - Uses complete sentences of increasing length in conversations (All)

Standard LD 5: Children will begin to develop age-appropriate strategies that will assist in reading

- Indicator LD 5 a - Demonstrates an interest in books or stories (All)
- Indicator LD 5 b - Discusses books or stories read aloud (All)
- Indicator LD 5 c - Exhibits book-handling skills (All)
- Indicator LD 5 d - Associates symbols with objects, concepts and functions (All)
- Indicator LD 5 e - Recognizes that print represents spoken words (All)
- Indicator LD 5 i - Recognizes books as a source of information (All)
- Indicator LD 5 k - Participates in oral reading activities (All)
- Indicator LD 5 m - Uses pictures or symbols to identify concepts (All)

Standard LD 6: Children will begin to develop age-appropriate writing skills

- Indicator LD 6 a - Experiments with a variety of writing tools, materials and surfaces (All)
- Indicator LD 6 b - Uses scribbles, shapes, pictures and letters, or other forms of writing (All)
- Indicator LD 6 c - Understands that print is used to communicate ideas and information (All)
- Indicator LD 6 d - Begins to dictate words, phrases, and sentences to an adult recording on paper (All)
- Indicator LD 6 e - Uses left-to-right patterns (All)

### **Mathematical Development**

Standard MD 1: Children will begin to develop an understanding of numbers

- Indicator MD 1 b - Arranges sets of objects in one-to-one correspondence (SM, FK)
- Indicator MD 1 c - Counts objects using one-to-one correspondence (SM, FK)
- Indicator MD 1 d - Compares sets of objects using language (SM, FK)
- Indicator MD 1 e - Begins to understand concepts of part and whole using real objects (SM, FK)
- Indicator MD 1 f - Begins to identify ordinal numbers (SM, FK)
- Indicator MD 1 g - Associates numeral name with set of objects (SM, FK)
- Indicator MD 1 i - Begins to understand the concept of estimation (SM, LPFL, FK)
- Indicator MD 1 j - Begins to recognize numbers (SM, FK)

Standard MD 2: Children will create and duplicate simple patterns

- Indicator MD 2 a - Copies a pattern using sounds or physical movements (LPFL, FK)
- Indicator MD 2 b - Recognizes and reproduces simple patterns of objects (SM, LPFL, FK)
- Indicator MD 2 c - Reproduces and extends a pattern using objects (SM, LPFL, FK)

Standard MD 3: Children will sort and classify objects

- Indicator MD 3 a - Matches like objects (SM, LPFL, FK)
- Indicator MD 3 b - Sorts objects using one characteristic (SM, LPFL, FK)
- Indicator MD 3 c - Classifies objects using more than one characteristic (SM, LPFL, FK)
- Indicator MD 3 f - Participates in creating and using real and pictorial graphs or other simple representations of data (LPFL, FK)

Standard MD 4: Children will develop a sense of space and an understanding of basic geometric shapes

- Indicator MD 4 a - Recognizes, describes and compares basic geometric shapes (SM, FK)
- Indicator MD 4 b - Uses classroom materials to create shapes (SM, FK)
- Indicator MD 4 c - Uses language to indicate where things are in space: positions, directions, distances, order (SM, LPFL, FK)

Standard MD 5: Children will learn how to use a variety of non-standard and standard means of measurement

- Indicator MD 5 b - Uses mathematical language to describe experiences involving measurement (SM, LPFL, FK)
- Indicator MD 5 d - Measures the length of objects using non-standard or standard measures (SM, LPFL, FK)
- Indicator MD 5 e - Measures the volume of objects using non-standard or standard measures (SM, LPFL, FK)
- Indicator MD 5 f - Measures and compares the weight of objects using non-standard or standard measures (SM, LPFL, FK)
- Indicator MD 5 g - Orders two or more objects by size (SM, LPFL, FK)

### **Scientific Development**

Standard SD 1: Children will use processes of science to actively explore and increase understanding of the environment

- Indicator SD 1 a - Asks questions about objects, organisms, or events in environment (All)
- Indicator SD 1 b - Uses senses to observe, classify, and learn about objects (All)
- Indicator SD 1 c - Uses language to describe observation (All)
- Indicator SD 1 d - Uses simple equipment to experiment, observe, and increase understanding (All)
- Indicator SD 1 e - Records observations through dictating to an adult, drawing pictures, or using other forms of writing (All)
- Indicator SD 1 f - Predicts what will happen next based on previous experience (All)

Standard SD 2: Children will acquire scientific knowledge related to life science

- Indicator SD 2 a - Observes, explores, and describes a wide variety of animals and plants (FK)
- Indicator SD 2 b - Recognizes there are basic requirements for all common life forms (FK)
- Indicator SD 2 c - Observes, explores, and describes a variety of living and non-living objects (FK)
- Indicator SD 2 d - Understands that plants and animals have varying life cycles (FK)
- Indicator SD 2 e - Participates in activities related to preserving the environment (FK)

Standard SD 3: Children will acquire scientific knowledge related to physical science

- Indicator SD 3 a - Investigates and describes the states of matter (FK)
- Indicator SD 3 b - Describes objects by their physical properties (SM, LPFL, FK)
- Indicator SD 3 c - Explores simple machines (SM)
- Indicator SD 3 d - Investigates different types/speeds of motion (FK)

Standard SD 4: Children will acquire scientific knowledge related to earth science

- Indicator SD 4 a - Investigates, compares, and contrasts seasonal changes in the immediate environment (FK)
- Indicator SD 4 b - Discovers through observation that weather can change from day to day (LPFL, FK)
- Indicator SD 4 c - Participates in activities to explore the earth and sky (LPFL, FK)

### **Creative Development**

Standard CD 1: Children will explore and use a variety of materials to develop artistic Expression

- Indicator CD 1 a - Experiments with a variety of materials and activities for sensory experience and exploration (All)

Standard CD 2: Children will participate in music and movement activities

- Indicator CD 2 a - Uses music and movement to express thoughts, feelings, and energy (LPFL, FK)
- Indicator CD 2 b – Participates in group singing or other musical activities (LPFL, FK)

Standard CD 3: Children will use drama to express individuality

- Indicator CD 3 a – Participates in dramatic play to express feelings, dramatize stories, reenact real-life roles and experiences (LPFL, FK)
- Indicator CD 3 b – Recreates a story or poem through drama (LPFL, FK)
- Indicator CD 3 c – Participates in activities using symbolic materials and gestures to represent real objects and situations (LPFL, FK)

### **Social & Emotional Development**

Standard SE 1: Children will develop confidence and positive self awareness

- Indicator SE 1 c - Demonstrates confidence in his/her range of abilities and expresses pride in accomplishments (All)

Standard SE 2: Children will develop curiosity, initiative, self-direction and persistence

- Indicator SE 2 a – Shows interest in learning new concepts and trying new experiences (All)
- Indicator SE 2 c – Demonstrates self-direction in use of materials (All)
- Indicator SE 2 e – Sustains attention to a task or activity appropriate for age (All)

Standard SE 3: Children will increase capacity for self-control

- Indicator SE 3 c – Uses classroom materials purposefully and respectfully (All)

Standard SE 4: Children will develop interpersonal and social skills for relating with other Members of the learning community

- Indicator SE 4 a – Participates successfully as a member of a group (All)

### **Health & Physical Development**

Standard HPD 2: Children will participate in activities that foster fine motor development

- Indicator HPD 2 a - Performs fine-motor tasks that require small-muscle strength and control (All)
- Indicator HPD 2 b – Uses eye-hand coordination to perform fine-motor tasks (All)
- Indicator HPD 2 c – Exhibits manual coordination (All)