



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

### **Legend**

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

*All = aligns with all current and future Zula activities and lesson plans*

*FK = aligns with future Mission Exploration Kit(s) (curriculum programs)*

*LPFL = aligns with Launch Pad for Learning Sampler activity kit*

### **Language and Literacy Development**

#### **Language**

- Communicates experiences, ideas, needs, choices and feelings by speaking. (All)
- Listen with understanding to conversations, directions, rhymes, songs and stories. (All)
- Talk for a variety of purposes: play monologues, play dialogues, imaginative discourse, information and understanding, social interaction, critical analysis, literary response and expression. (All)

#### **Literacy**

- Look for meaning in visual symbols. (All)
- Exhibit a variety of behaviors when interacting with books. (All)
- Describe and share their own experiences. (All)
- Demonstrate the behaviors of a beginning writer. (All)

## **Mathematics**

### Numbers and Operations

- Develop an understanding of numbers, ways to represent numbers, relationships among numbers and the number system. (SM)
- Begin to understand predictions and use estimation. (All)

### Patterns, Quantitative and Qualitative Properties

- Understand patterns, relations and functions. (SM)
- Recognize and analyze quantitative and qualitative properties. (SM)

### Shapes and Spatial Relations

- Recognize properties and characteristics of geometric shapes. (SM)
- Understand location, position and spatial relationships. (SM)
- Use visualization and spatial reasoning to solve problems. (SM)

### Measurement

- Understand that there are measurable attributes of objects and the processes of measurement. (All)

### Information Gathering and Probability

- Formulate questions and collect, organize and display relevant information to answer their questions. (All)
- Understand that predictions can be made. (All)

## **Scientific Thinking**

- Pose questions, seek answers and develop solutions. (All)
  - Observes, investigates and asks questions about the world around him/her.
  - Collects, describes and records data.
  - Compares, contrasts and classifies objects and events.
  - Uses equipment for investigation.
  - Makes and verifies predictions.