# Pre-K Mathematics Small Group Exemplar Video Introduction:

As a follow up to reading *The Little Red Hen Makes a Pizza*, preschool students count out ‘toppings’ to add to a pizza using manipulatives. Students produce a set and add to their set to make a target number. Students check one another’s counting. The teacher models number writing to match the set of toppings.

Please note the following exemplar practices in this pre-kindergarten small group video:

* Small group mathematics instruction consists of 3 children. Effective small groups should be no larger than 4 children.
* Cross curricular activities, that connect math concepts to a story, engages students.
* Cross-curricular activities help students develop critical thinking and problem-solving skills by applying math and literacy skills in an authentic context.
* Small group mini lessons have a specific learning objective to focus on.
* The teacher creates a focused, interactive learning environment where students actively engage with materials, receive tailored feedback, and collaborate with peers, all while the teacher monitors and supports their learning.
* Students are grouped homogeneously in their zone of proximal development to cater to diverse learning styles and abilities.
* Students concretely model the mathematical concepts of counting, cardinality, and counting on to produce a larger set using hands-on materials.

*Preschool Teaching and Learning Standards* (2014) Mathematics:

4.1.1 Count to 20 by ones with minimal prompting.

4.1.2 Recognize and name one-digit written numbers up to 10 with minimal prompting.

4.1.3 Know that written numbers are symbols for number quantities and, with support, begin to write numbers from 0 to 10.

4.1.4.a Accurately count quantities of objects up to 10, using one-to one-correspondence, and accurately count as many as 5 objects in a scattered configuration.

4.2.1.a Represent addition and subtraction by manipulating up to 5 objects by putting together and adding.