

**DOMAIN 4: GENERAL KNOWLEDGE****SUB-DOMAIN: MATHEMATICS AND NUMERACY****NUMBER SENSE AND OPERATIONS**

**GOAL 39: CHILDREN DEMONSTRATE UNDERSTANDING OF NUMBERS, WAYS OF REPRESENTING NUMBERS, RELATIONSHIPS AMONG NUMBERS, AND NUMBER SYSTEMS.**

Age Range	Developmental Growth	Child Indicators	Caregiver Strategies
<p><b>Birth through 8 Months</b></p>	<p>Begins to show awareness of quantity.</p>	<ul style="list-style-type: none"> <li>▪ Shows cues of hunger and fullness</li> <li>▪ Begins to show awareness of differences between people and objects.</li> <li>▪ Responds by focusing on an object pointed to by someone.</li> <li>▪ Begins to show awareness of small quantity differences; looking at or reaching for two or more people or holds an object in each hand.</li> <li>▪ Begins to respond to the spoken concept, "more" in reference to food or play.</li> <li>▪ Uses gestures to request "more."</li> </ul>	<ul style="list-style-type: none"> <li>▪ Feed infants in relation to hunger and fullness cues.</li> <li>▪ Respond to child's hunger and fullness cues with either more food or by withdrawing food.</li> <li>▪ Pair words for "more" with action around hunger, fullness, reaching for more toys, more hugs, or more music.</li> <li>▪ Talk about the size of everyday objects (e.g. big, little, tall, short, heavy, light).</li> <li>▪ Engage children in activities that show "more." Eating, dressing, and singing or play times are good times to talk about concepts of more.</li> <li>▪ Use number games and vocabulary with child, using numerical terms (e.g. two eyes, one nose, two hands, one belly button).</li> <li>▪ Comment on socks and shoes as they are put on the infant (e.g. say, "One shoe . . . two shoes").</li> <li>▪ Count objects in child's environment "out loud" in the home language.</li> <li>▪ Use counting finger-plays, songs, and number rhymes (e.g. "One, Two, Buckle My Shoe").</li> <li>▪ Tell stories and read books about amounts.</li> </ul>