

DOMAIN 4: GENERAL KNOWLEDGE			
SUB-DOMAIN: MATHEMATICS AND NUMERACY			
MEASUREMENT			
GOAL 40: CHILDREN DEMONSTRATE UNDERSTANDING OF MEASURABLE ATTRIBUTES OF OBJECTS AND THE UNITS, SYSTEMS, AND PROCESSES OF MEASUREMENT (INCLUDING SIZE, VOLUME, HEIGHT, WEIGHT, LENGTH, AREA, AND TIME).			
Age Range	Developmental Growth	Child Indicators	Caregiver Strategies
Birth through 8 Months	Uses sensory exploration to investigate environment and spatial relationships.	<ul style="list-style-type: none"> ▪ Shows awareness of own body space. ▪ Holds, handles, mouths, and plays with toys and objects of different sizes and shapes. ▪ Moves to get a toy. ▪ Reaches for and grasps toy. ▪ Finds toy that is partially hidden. ▪ Uses senses to explore and distinguish objects' attributes (e.g. sucking, turning head toward sounds, looking, throwing, moving, grasping, dropping, touching, and rubbing.) ▪ Moves items across midline without intention, and later with intentionality. 	<ul style="list-style-type: none"> ▪ Provide defined areas that allow for movement and exploration of personal space with materials and activities. ▪ Provide opportunities to reach and grab adult fingers and objects. ▪ Use vocabulary that describes spatial relationships such as "in" and "out" as baby explores items. ▪ Gently stretch baby's arms over head or wide from sides saying "SO BIG!" ▪ While baby watches, cover a toy with a clear cup and ask where is the ...? You can find it." Then, let baby find it under the cup. ▪ Describe and make simple comparisons such as more, less, same, as you interact with the baby in daily routines. ▪ Provide baby with toys that have incremental sizes (nesting cups, stackable rings) from own and other cultural backgrounds. ▪ During daily care routines, talk with the baby about their surroundings, their body movements, and what will happen next. ▪ Describe baby's sensory explorations (e.g. you moved the rattle and it made a tinkling sound; you held the bear in your hand and then dropped it; you found your thumb!; you touched the book's page; you tasted that doll's head; or, you saw your hand when it came over your chest).