

Notes on Movement

Babies use every resource they have to understand their world. It is very important among these resources are sight, touch, hearing, smell, and taste. Each sense develops in its own way at its own pace and the best opportunity for development is through their environment

Movement: Fine-Motor (ability to grasp and manipulate objects)

- 1st year - complex hand and finger skills
- 4 months - first grasp
- 4-6 months - precise pincer grasp & first successful reach
- Floor time - tummy and back to the floor.

Development of sight

- Last of the senses to develop in infancy
- Newborn has difficulty in viewing beyond 20-30 cm
- 2-3 months have capability of perceiving depth
- 7 months brings visual acuity

Development of Touch

- 7 weeks in utero 'Tactile sense' begins to develop
- Born with grasp reflex.

Development of Hearing

- 17 weeks in utero development begins

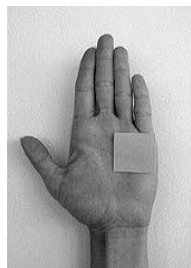
Development of smell

- In utero, sense of smell (olfactory sense) develops

Developmental Progression of the Grasp & where on palm to place object

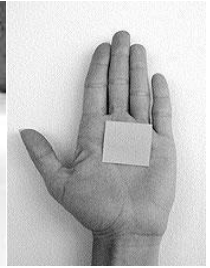
*Age 4-5 months: **Crude Palmar Grasp***

Ulnar side of palm, no thumb



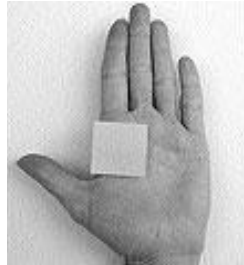
*Age 5-6 months: **Palmar Grasp***

Center of the palm, no thumb



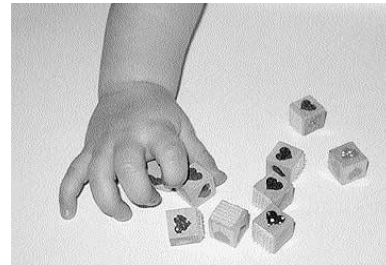
Ages 6-7 Months: **Radial Palmar Grasp**

Radial side of palm, thumb beginning to Oppose & actively press object into palm



Ages 7-8 Months: **Raking**

Flexion of radial fingers bring objects into palm.



Ages 8-9 months: **Radial Digital Grasp**



Full opposition of thumb to secure object, flexion of ulnar fingers for stability

Ages 8-9 months: **Inferior Pincer Grasp**



Adduction of thumb to secure object against extended index finger.

Ages 10-12 months: **Pincer Grasp**



Full opposition of pads of thumb & index finger to secure object. while using the pincer grasp. The tip of finger secures object in pincer grasp.