

A Well-Balance Math Experience



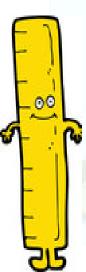
Body Compatanca





Wnderstanding

Measurement





Spatial Awareness: the ability to be aware of oneself in space

An awareness of spatial relationships is the ability to see and understand two or more objects in relation to each other and to oneself.

Body Competence Critical to Conceptual Understanding of Measurement



When a child is developing their spatial awareness they begin to become aware of their placement in relation to the things around them. They need to understand their location as well as concepts like distance, speed and placement (over, under, behind etc.).

Body awareness is about understanding where our bodies are in space, and where and how we move.

It involves a combination of the vestibular, tactile, and proprioceptive sensory systems.

Understanding the information received from of all three of these systems can increase body awareness of where our body starts and ends, and how it fits/moves through the environment.

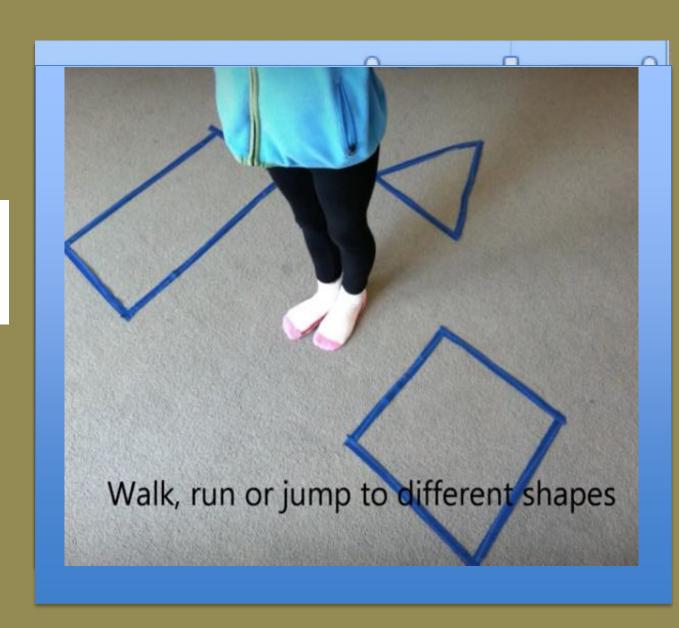


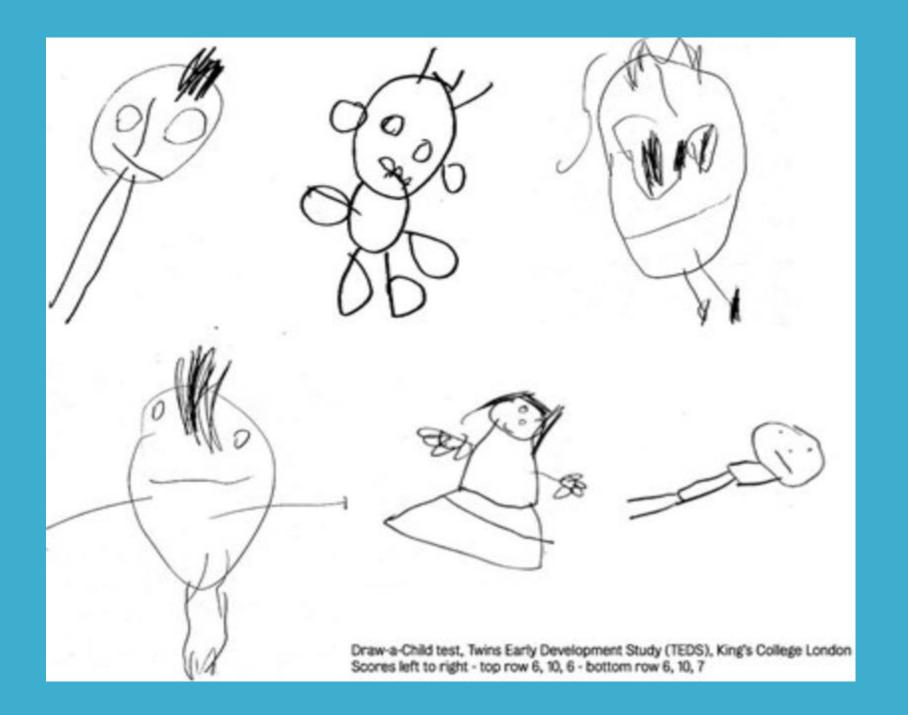
Activities to Build Body Awareness

- Body Image
- ➤ Body Concept
- ➤ Body Schema
- ➤ Laterality
- Directionality



5 Motor Skill Activities Using Painter's Tape







Body Awareness What The Body Can Do

Body awareness involves knowledge of

the body parts

what the body parts can do and

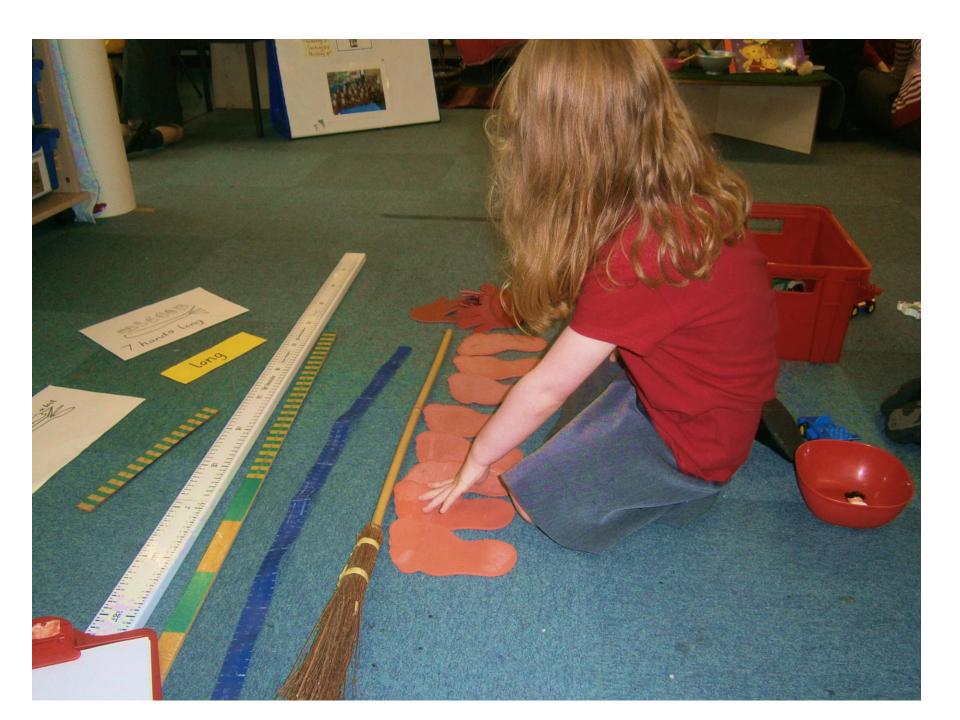
how they can do it



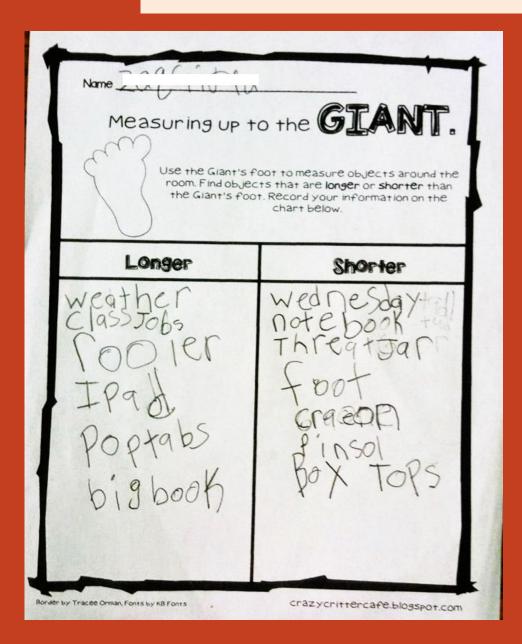


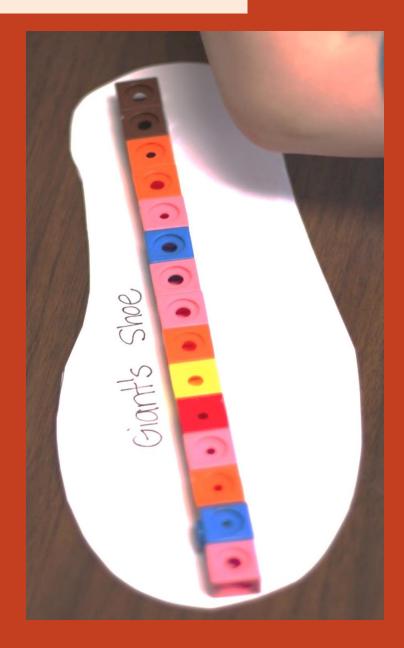
math activities with unit blocks UNIT 2 Units UNITS 8 UNITS





How BIG IS A GIANT'S FOOT?







	Manual and Manual and Market	Measure Me	Unit of Measure:
and the second s	Body Part	Estimation	Actual Measurement
	Body		
	Arms		
	Hands		
	Legs		
	Feet		
	Waist		

Weight and Balance



Through trial and error the two boys explore which two objects are of a similar weight – this also introduce children to the concept of "equal" (weight)

Weight: Using Non-standard Units



Child uses another way of weighing the fruits and making an estimate in the equivalent number of blocks.

Conservation of Weight



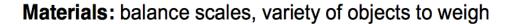
Child observes that despite the change in the shape of the dough, the weight remains constant

Weight: Determining Heaviest to Lightest



After weighing individual object, the child has to put the objects from the heaviest to the lightest

Which Weighs More?





1. Choose two objects. Which object do you think weighs

more?

I think the _____ is heavier than the _____.





- 2. Use the balance scales to check your prediction.
- 3. Draw a picture to show what happens when you put the two objects on the balance scales.
- 4. Repeat using two different objects.





Capacity: Measuring Uncountable Units



Children gained personal experience with the different capacities of the varying sized containers.

Capacity: Measuring Uncountable Units



In this next set of slides, children graduate to experience smaller units of receptacles.

Capacity: Measuring Uncountable Units



As children experience both liquid and solid uncountable units to fill a receptacle, they form their own Logicomathematical understanding (cannot be taught but must be formed through personal experiences).

Estimation



After accumulating all these experiences, the child will put his understanding to a "test" by making an "educated" guess - estimate

Ms. Warner is really thirsty! Which cup should she use? Why?

blue?

We think:

Not the blue - it's too

small. The green is bigger
than the red-it will hold
more water.

We learned: The red is

green? is shorter, but "fatter."
so it holds more water.







How long is the shadow of your structure?

Make a guess and measure it.



Thank Jou



for your kind attention

Peggy Zee

peggy.zee88@gmail.com



FACEBOOK PAGE

Interested in Children Development