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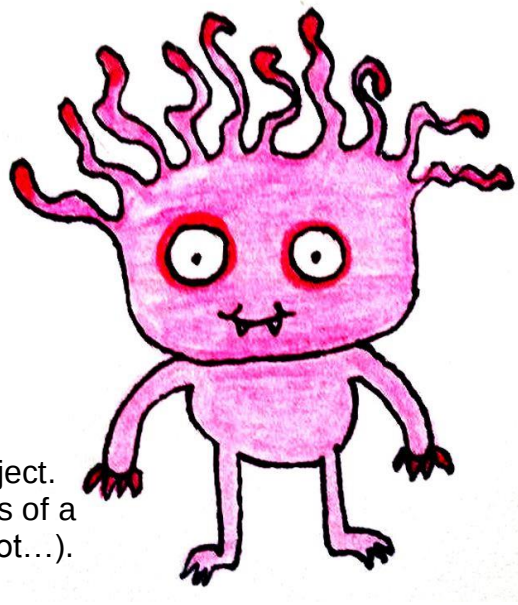
# Aspect 7:
# I Can Use Measurement Units

**NSW Numeracy Continuum, Aspect 7:** Unit structure of length, area and volume.
(Source: NSW Department of Education & Communities (2010), Numeracy Continuum K – 10.
Available at URL: http://www.numeracycontinuum.com/index.php/continuum-chart. )



***(DIRECT ALIGNMENT)***

- ☐ I can compare the size (eg. length or height) of two objects.
- ☐ I can compare the volume (amount) of two containers of liquid given similar sized containers.

***(TRANSITIVE COMPARISON)***

- ☐ I can directly compare the size of three or more objects.
- ☐ I can use the size of one object to compare the size or two or more other objects.

***(MULTIPLE UNITS)***

- ☐ I can use two or more units of the same sized object, without gaps or overlaps, to measure the size of another object.
- ☐ I can state the size (measurement) of a given object in terms of a number of same-sized informal units (eg. paper clips, my foot…).

***(INDIRECT COMPARISON)***

- ☐ I can choose and use a selection of the same sized units to measure and then indirectly compare the size of two or more objects.
- ☐ I can show that the size of a unit of measurement affects the number of those units needed to measure an object of a given size.

***(ITERATION OF THE UNIT)***

- ☐ I can use a single unit of measure over and over to measure or construct length or height.
- ☐ I can use a ruler or tape measure to measure length, height or distance.
- ☐ I can show that the size of the units on a ruler have a proportional relationship to the number of those units needed to measure an object (eg. if you halve the size of the unit you will have twice as many units in the measurement).

***(COMPOSITE AREA)***

- ☐ I can make a row / column structure to measure or show the measurement of an area.
- ☐ I can calculate the area of a 2-D rectangular space using a row / column structure of same-sized units.

***(REPEATED LAYERS)***

- ☐ I can make a row / column / layer structure to measure or show the measurement of a volume.
- ☐ I can calculate the area of a 3-D prismatic space using a row / column / layer structure of same-sized units.

**Important Note to Teachers, Parents and Caregivers:** This this guide should be used with direct reference to the relevant aspect and section of the NSW Department of Education & Communities Numeracy Continuum K – 10, 2010.