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| **Clarity for Learning**  |
| **Standard KY.5.MD.4** Measure volumes by counting unit cubic cm, cubic in, cubic ft. and improvised units. |
| **Concepts (Nouns)**volumesunits (cubic cm, cubic in, cubic ft., improvised units) | **Skills (Verbs)**measurecounting |
| **Learning Progressions** *Prerequisite:** Measure areas by counting unit squares (square cm, square m, square in, square ft. etc)

*Grade Level Skills:* * Use hands-on manipulatives (unit cubes) to recognize volume as an attribute of three-dimensional space.
* Understand that volume can be measured by finding the total number of same-sized units required to fill the inside space without gaps or overlaps.
* Measure volume by counting cubes (hands-on manipulatives and visual models).

*Clarifications:* Students use cubes to cover a bottom layer of a rectangular prism, understanding cube as a unit cube. As students place layers to fill the rectangular solid, they notice the number of cubes in each layer can be found by multiplying (number of cubes in one row) x (number of rows) and this product (the base) can be multiplied by how many layers to determine how may unit cubes will fill the container. Students connect this idea to the formulas for volume. KY.3.MD.6 🡪 KY.5.MD.4  |
| **Learning Intentions (I am learning to...)** | **Success Criteria (I know I’m successful when...)** |
| Measure the volume of solid figures.  | * I can count unit cubes to find the amount of space inside a three-dimensional figure.
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