

Formative Assessment Task

Kindergarten: Operations and Algebraic Thinking

K.OA.1. Represent addition and subtraction with objects, fingers, mental images, drawings, sounds (e.g. claps) acting out situations, verbal explanations, expressions, or equations.

Directions:

1. Gather snap cubes and two dice for your students.
2. Have students roll the two dice and then build a snap cube tower that represents the total rolled.
3. Create five towers (roll five times and create a tower each time you rolled).
4. Have students record their data by drawing a picture or writing about their data on the sheet provided.

Considerations:

Watch how students recognize the amount they need to represent.

- When students are representing the amount, are they taking one cube and adding one at a time or are they purposeful taking two or more cubes to build?
- Are students accurately representing the two numbers rolled as a tower?
- When students have a strong foundation for adding to amounts together, an extension to this activity is to have students write a number sentence to represent the rolled amount.
- This activity could also assess comparing numbers by placing the towers in order from least to greatest or greatest to least.

Collecting Data:

Student performance can be scored with a provided task rubric or a rubric created by the teacher.

Data can be recorded on a scoresheet.

First Tower	Second Tower	Third Tower	Fourth Tower	Fifth Tower

First Tower

+

=

Second Tower

+

=

Third Tower

+

=

Fourth Tower

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Fifth Tower

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$