

Math Connections for Parents

Grade K Module 4

Number Pairs, Addition and Subtraction to 10

Welcome to Kindergarten Module 4! Newark City Schools is using the EngageNY curriculum, which is aligned with Ohio's New Learning Standards. In this module, students will begin an exciting new step, addition and subtraction! Students will start with 0-5, and will add on adding and subtracting 6-10.

Important Words and Concepts

- Make 10: two numbers 1-9 to add up to 10
- Minus (-)
- Number bond: math model to show relationship between addition and subtraction (see example on next page)
- Number pairs or partners
- Put together: add
- Take apart: decompose
- Take away: subtract
- Whole: total
- Hidden partners: e.g. 3 and 2 are hidden numbers in 5
- Number sentence ($3 = 2 + 1$)
- Number story: stories with add to or take from
- Plus (+)

Add and Subtract to 5

Students in Kindergarten will work towards memorizing the addition and subtraction facts 0-5 by the end of the year. Students will also be working with numbers up to 10 this module. Work with your child to develop automatic recall of addition and subtraction facts 0-5 by counting. Use toys at home or items at the store to practice counting skills.

KEY STANDARDS

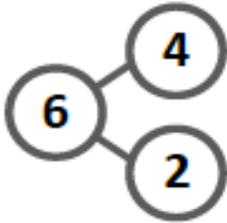
- Understand addition as putting together and adding to.
- Understand subtraction as taking apart and taking from.
- Use objects, fingers, mental images, drawings, sounds (claps), acting out, talking about the problem, expressions and equations to solve addition and subtraction.
- Decompose numbers in different ways (e.g. $5 = 2 + 3$ or $5 = 4 + 1$)

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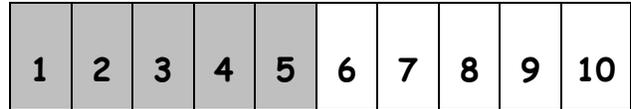
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Graphics and Strategies you will see...



Number Bond



Number Path: counting tool

Students will get used to seeing problems with the equal sign to the left or the right.

There are 8 shapes. There are 5 triangles and 3 diamonds.

A collection of eight blue geometric shapes: five triangles and three diamonds.

$$\boxed{8} = \boxed{5} + \boxed{3}$$
$$\boxed{5} + \boxed{3} = \boxed{8}$$

Students learn that crossing off or removing a part can help show subtraction:

