



## TEACHER PAGE

### K-2 "Math Behind the Games"

Find the video portion of this lesson [HERE](#)

#### MATERIALS:

For each student

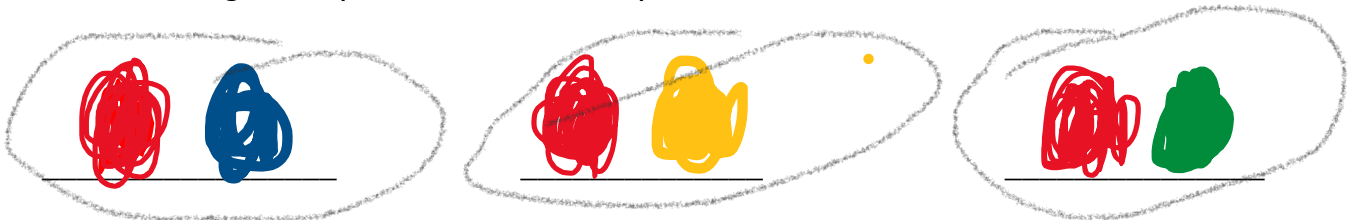
a pencil, colored markers or crayons and white paper

(optional) colored teddy bear counters, colored cubes, crayons, paper squares (or other markers) ~ colors: red, yellow, blue, green, purple.

#### "Bears at the Playground"

In this part of the video lesson, students discover combinations. They will be determining how many pairs of 2 can be made from different numbers. When there is an opportunity to do some figuring, there will be a prompt to pause the video.

Rather than providing a worksheet to color, give students an opportunity to think about how to show their thinking. Provide blank white paper and show them how to make drawings to represent their "bear pairs."



#### "Bears at Batting Practice"

Here students see how order or position changes things. They are exploring permutations. If you use the [P.E.T.S.](#) curriculum, your students may have played the game "Aces, Jumble, Zilch." You can use this lesson to lead them to a connection with that game.

Only one answer is not provided in the video: **There are 24 different ways to line up the 4 bears for batting practice.**

You can use all or just parts of the lesson to meet the needs of different levels of students (e.g. show only the "Bears at the Playground" to kindergarten students). You can find additional resources for further investigations [HERE](#).