

Ladybugs and Aphids – Student Instructions

Materials:

20 Dice
Ladybugs and Aphids Game Mat
Data Chart
Behavior-over-time Graph Paper

Procedure:

1. Separate the dice into two piles of 10: 10 for the ladybugs and 10 for the aphids. Put 10 on each side of the Game Mat.
2. Roll the **aphid dice** on the **left side** of the Game Mat.
3. Roll the **ladybug dice** on the **right side** of the Game Mat.
4. Look for matches between the ladybugs and the aphids. Remove all the matching dice (one-to-one match) to the Surviving Aphids part of the Game Mat.
5. Any dice remaining without a match will be ladybugs for the next round. Move them to the ladybug side.
6. All the dice that ended up in the Surviving Aphids part of the mat are aphids for the next round. Move them to the aphid side.
7. Record the number of aphids and ladybugs at the end of each round on the Data Chart, before you roll the dice again.
8. After 10 rounds, or if there are no more surviving ladybugs or aphids, use the data to create a BOTG. Draw a line to represent the ladybugs in one color and a line to represent the aphids in another color. Draw both lines on the same BOTG.
9. What do you notice about the ladybug line? What do you notice about the aphid line? What do you notice about the relationship between the two lines? Why do you think this happened?

