Hula Hoop Sorting

Inspired by the book *3 Little Firefighters* by Stuart J. Murphy

Goal: Practice sorting

You will need:

- A collection of items (for example: toys, leaves, blocks, cars)
- 2 or 3 hula hoops (or circles made of yarn, string, or tape)
- A partner or partners (optional)

What to do:

- Pick an attribute (for example: color, shape, or size) and sort the items into two hula hoops: one for items with the attribute and one for the items without the attribute.
- Count the items in each hula hoop. Which group has more?
- If playing with a friend, sort the collection into two groups and ask your friend to guess how the items are sorted.

To think about:

- How many ways can you sort the same collection of items?

Something to try:

- Using the objects you have collected, is there a way you can sort them by 2 attributes that will result in 3 groups:

    - For example

        - Items with attribute A (things that are red)
        - Items with attribute B (things that roll)
        - Items with both attributes A and B (things that are red and roll)

- Use overlapping hula hoops to separate the groups