



STEM Kit:

Math Exploration

Program Level: Daisies and Brownies

While this may look like fun and games, there's quite a bit of math in this kit!

Supplies Provided:

- Tangrams
- Tangram books (2)
- Dice
- Pretend money (paper and coins)
- Learning ATM

What to Bring:

- NONE

Instructions:

1. This kit can be used in pieces, or set up as math stations.
2. **Tangrams:** Read the story book to the girls. Have the girls pair up or work individually to solve the puzzles from the puzzle book. They can also explore with the tangrams to make their own shapes, then trace them and trade with another pair to see if they can solve the puzzle. This could also be done individually once the girls have a good understanding of the materials.
3. **Dice:** Use the activity book to choose a game (girls may want to vote or select something themselves). Simple activities would be "Roll to 100" where each girl gets a pair of dice and a sheet of paper/white board to record their numbers. They need to add as they go and the first group that gets to 100 wins. You could also have the girls roll a pair of dice to see how many rolls it takes to get double digits, or both even, both odd, etc.
4. **Money:** Work on those financial literacy badges/petals to help girls learn how to identify the value of coin, make change, and trade coins in for cash when they collect enough to make a dollar.

Why?

At this age, you want kids to develop a good appreciation for math, in and outside the classroom. Tangrams are a great way to introduce some geometry, as well as problem solving. The dice provide a fun way to learn some simple number sense. The money provides a "real world" connection between math and something that they already have some familiarity with.

All of these activities can be made more complex, or simplified based on the ability level of the girls in your troop. While some may use the dice to add to 100, you may want others to roll the dice, count the dots on the side facing up, and identify that number correctly.

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