

Math Centers Lesson Plan

Grade: Kindergarten

Time: 40 minutes (8 minutes per station plus 2 minutes transition time)

Topics: Patterns, addition, and counting

Implementation: Today's Class, we will be rotating through math stations. I will split you up into four groups and we will work to solve some math problems. We have four centres, Pattern Detectives, Cookie Math, Spidey legs, and Find the Missing numbers. Each group will have eight minutes to work on a station, when the buzzer goes off we will stop, freeze and point to which station we will head to next. (Explain each station.)

Station #1: Pattern Solving

Students will be able to: Solve a simple A B A B pattern structure as well as an AA BB pattern.

Curricular competency: Reasoning and analyzing is the competency they will hit at this station as they will need to look at the card in front of them and figure out what is happening. They will need to analyze the colours and figure out what to put in their ice cube trays that matches what was shown above,

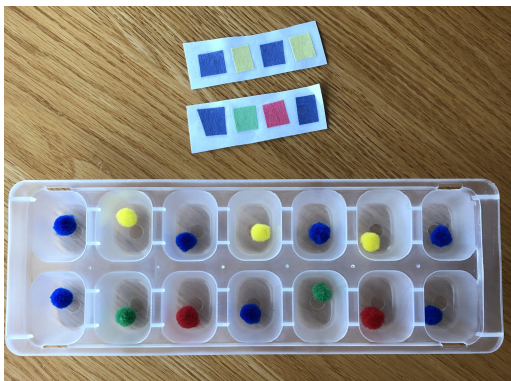
Materials:

- Pattern cards
- Beads
- Ice cube trays

Explanation:

In front of each ice cube tray is a card with a pattern, you have to be a detective and figure out what that pattern is showing us. Once you have solved the mystery show us you can repeat the pattern by making it in a row of your ice cube tray. If you are done the first card try the next one see if you can solve that one too!

Student Example:



Station #2: Cookie Addition

Students will be able to: Add together single digit numbers by counting.

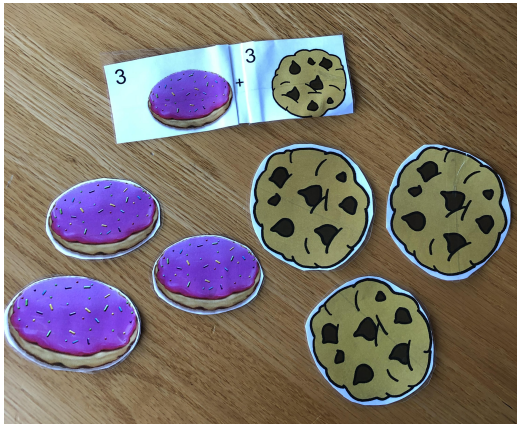
Curricular Competency: Understanding and solving is the curricular competency used at this station. Students will follow a card and count together to add them, they will need to understand we have X amount of one cookie and X amount of another. They will solve it by counting up all of the cookies.

Materials:

- Cookie Addition cards
- Cut out cookies

Explanation: In station number two you will find cards with two pictures of cookies and a number, it will say how many we need of one type of cookie and how many we need of the other type of cookie. Your job is to gather the correct amount of cookies and count how many we have in total.

Student Example:



Station #3 : Spidy Legs

Students will be able to: Recognize single digit numbers and accurately represent that number using manipulatives.

Curricular Competency: Communicating their mathematical thinking by recognizing numbers and then physically expressing that number by selecting and pinning the correct number of clothespins.

Materials:

- Clothes pins (spider legs)
- Paper spiders with the numbers 1 to 10 written on them.
- Two containers

Explanation:

In station three there will be a container full of spiders and a container full of legs. You will take a spider and look at its belly to see the number of legs it wants. Now that it has told you how many legs it wants you can grab the right number of legs and clip them to the spider so it can have all its legs.

Student Example:



Station #4: Find the Missing Numbers

Students will be able to: Students will be able to fill in the gaps of different number patterns by identifying the missing digit.

Curricular Competency: Reflecting on their existing math knowledge and connecting what they know about numbers and patterns to solve number patterns with missing digits.

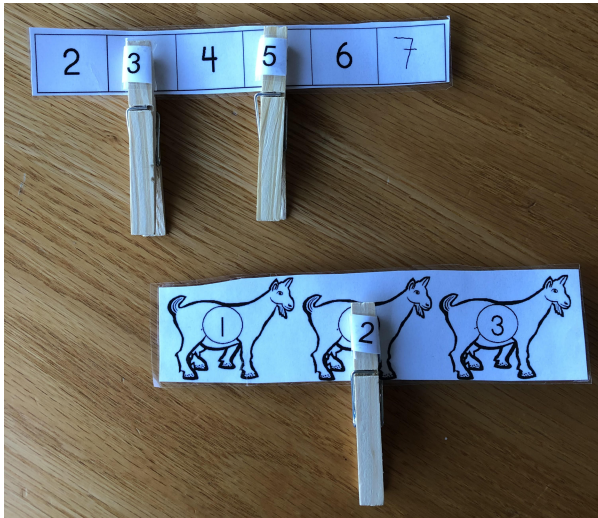
Materials:

- Clothes pins with the numbers 1 through 10 written on them
- Pieces of paper with number patterns written on them with some digits missing
- Two containers

Explanation:

At station 4 there is a container of clothes pins and a container of patterns. These patterns all have numbers missing so it is your job to be detectives and figure out what number(s) is missing. All the clothes pins have numbers written on them that could solve the pattern so once you know the number you can clip that number on to the pattern.

Student Example:



UDL:

Station 1:

- Simpler patterns for students
- Harder patterns for quicker students
- EA makes a pattern and student helps to add on

Station 2:

- Have a number and have the students count out that many cookies
- Harder, have students "Eat" an amount of cookies and count how many are left
- EA Has a student count out cookies in front of them

Station 3:

- Have a student count to the number on the card
- Have students add two spider legs together
- EA Has a student say the number on the card

Station 4:

- Have less numbers missing
- Increase the missing numbers
- Have the student count from beginning number to end number