

# Carina's Magical Math Potions

## Materials Needed:

- A large bowl or pot (the "cauldron")
  - A spoon or stick for stirring
  - 3-4 small bowls to hold "ingredients"
  - Various small, countable items (e.g., pom-poms, beads, buttons, dried beans, colorful pasta) - these are the "magical ingredients"
  - A piece of paper or small index card ("Potion Recipe Card")
  - A crayon or marker
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## Lesson Plan (15 Minutes)

### 1. Learning Objectives

By the end of this 15-minute lesson, Carina will be able to:

- Count out two separate groups of objects up to 5.
- Combine the two groups to find a total sum (concrete addition).
- Create a simple visual representation of her addition problem on a "recipe card."

### 2. The Lesson Activities

#### Part 1: The Magical Setup (3 minutes)

**Teacher's Role:** Set the stage for a fun, creative task. Your job is to be the "Head Potion Master."

#### Instructions:

1. Say, "Welcome, Potion Maker Carina! Today, we are going to create a magical potion. But our magic only works if we use the exact right number of ingredients. Your first mission is to create a 'Sunshine Potion' to make the whole day feel happy."
2. Show Carina the "cauldron" and the bowls of "magical ingredients" (e.g., yellow pom-poms are "drops of sun," blue beads are "giggles").
3. Ask Carina to choose two ingredients for her Sunshine Potion.

#### Part 2: Potion Creation (8 minutes)

**Teacher's Role:** Guide Carina through the process of counting and combining, focusing on the action of addition.

#### Instructions:

1. **Step 1 - First Ingredient:** Say, "Our secret recipe says the Sunshine Potion needs **3 drops of sun.**" Have Carina count out exactly 3 yellow pom-poms and place them in the cauldron. Count along with her: "One... two... three!"
  2. **Step 2 - Second Ingredient:** Say, "Excellent! Now, the recipe says we must add **4 happy giggles.**" Have Carina count out 4 blue beads and add them to the cauldron.
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3. **Step 3 - The Magic Question:** Stir the potion together dramatically. Then ask, "Carina, you are a brilliant potion maker! You put in 3 drops of sun and 4 happy giggles. **How many magical ingredients are in our potion altogether?**"
4. **Step 4 - The Discovery:** Encourage her to count the items in the cauldron to find the total (7). Celebrate her discovery! "Seven! That's it! 3 plus 4 makes 7. Our potion is perfect!"

### Part 3: The Recipe Card (4 minutes)

**Teacher's Role:** Help Carina document her creation, solidifying the connection between the physical objects and the abstract numbers.

#### Instructions:

1. Give Carina the "Potion Recipe Card" (paper) and a marker.
2. Say, "Every great potion maker writes down their secret recipe. Let's draw what you made."
3. Help her draw the ingredients. She can draw 3 yellow circles (suns) and 4 blue circles (giggles).
4. Below the drawing, help her write the number sentence: **3 + 4 = 7**. You can write it lightly in pencil for her to trace, or help her form the numbers.
5. Hold up the card and praise her work. "You did it! You created a potion AND you wrote down the secret magical formula!"

### 3. Differentiation & Inclusivity

- **To simplify:** Use smaller numbers (e.g.,  $2 + 1$ ). Focus only on the counting and combining, and skip writing the number sentence.
- **To add a challenge:** Ask her to create a new potion with larger numbers (e.g.,  $6 + 5$ ). Or, introduce subtraction: "Oh no! We accidentally put in 8 ingredients, but the recipe only needs 6. How many do we need to take out?"
- **Inclusivity:** The theme is imaginative and not tied to any specific culture. The use of hands-on, sensory materials caters to kinesthetic learners, while the storytelling appeals to auditory and creative learners.

### 4. Assessment (Formative)

Assessment is done through observation during the activity:

- Did Carina correctly count out the initial groups of items (one-to-one correspondence)?
- Was she able to combine the groups and count the total amount accurately?
- Did she show understanding when creating her recipe card (connecting the physical act to the drawing and numbers)?