

Can you find the Antidote?

You are locked in a room.

A mad scientist created an explosion that has released a deadly toxin in the air that you are now breathing.

In her rush to leave the building, the Mad Scientist forgot her assistant who was in the supply closet at the time. The good news is that the assistant knows how to make the antidote. The bad news is that she cannot unlock the supplies without the passcode!

The Mad Scientist left behind two sets of notes. Break into two groups, but work together to solve her puzzles!

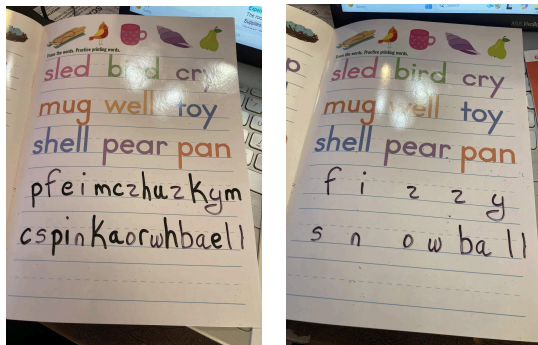
Your mission...find the passcode to get to your supplies to make the antidote!

Puzzle #1 set up: Table with 2 White Boards. Solution: White board with a message written in permanent ink. You have to wipe off the dry erase letters to reveal the message. **Clue:**

Exploding Snowman.

Supplies Needed: 2 small white boards, permanent marker and dry erase markers. Paper towel.

NOTES: I couldn't find the white boards at the dollar store, but they did have two dry erase letter books that I used. My plan was to write the clue in two parts...one in each book. Here is an example of what I was trying to do. I had two groups so I had two books. I recommend doing the same message in each book. I just realized, it's not supposed to say "fizzy...is should be "exploding snowman" Fizzy snowball is another experiment but that was later.



Experiment #1 (Exploding Snowman): Table set up with Trays and snowman. If there is a reaction, they will take the bag of popsicle sticks to find their next clue/station.

Supplies Needed: Trays. Sandwich bags. Directions: Markers. Paper towels. Baking Soda. Vinegar. Shot cups for vinegar. Popsicle sticks and snack bags. Blue Food coloring. Black and orange sharpie for face.

Notes: You will need to pre assemble the baking soda paper towels. I secured them with masking tape and then removed the tape before we started.



Puzzle #2: 10 puzzle bags of popsicle sticks form two puzzles. "I don't like... Dancing"

Notes: I planned for 10 girls so I needed 10 puzzles. I made it more challenging by not grouping them in the same color, but numbered the sticks to make them go with each other. See photos. I also added the bonus "Dancing". One stick in each bag and they needed to figure out the black dots needed to be grouped together.



Experiment #2 (Dancing Beans): Like the Dancing corn ([Dancing Popcorn Experiment](#)). Have lima beans and painted rocks. The rocks will sink and have a letter or something on them that leads them to next station.

Supplies: painted rocks to look like lima beans. 10 glass jars. Paper plates. Baking soda, vinegar, lima beans with words Scared Pepper. Stations need to be set up in order. I had cylinders and wooden stands (with numbers). Cup of water.



Puzzle #3: Lima beans spelled out: Scared and Pepper.



Experiment #3 (Scared Pepper) Set-up. Bowls. Cup of water. Pepper container. Q-tip with soaked in dish soap. Yes and no Scratch off tickets

Supplies: bowls. Water cups. Pepper container. 2 q-tips/station. One with nothing on it. One with dish soap on it. Or one q-tip with soap on one end. Scratch off tickets (([Monday Made It: Scratch Off Tickets](#))). I used blue acrylic paint and dish soap. A cut up page protector and had to tape the protector to the card stock because glue wouldn't stick to the plastic...



Puzzle #4: Scratch off tickets. Will be numbered and the words Touch Me Not... Flowers.

Notes: Make sure you label the ones with clues Yes! I left pennies on the table so they had something to scratch off the yes/no cards.



Experiment #4 (Blooming Flowers): Place a flower in each empty bowl. With the note. Touch me not. Empty bowls. Make me bloom...but you cannot touch me! Place bloom in the bowl and figure out a way to make it bloom! Blooming flowers will lead to an **American Flag**.

Supplies: Flower blooms colored, cut out, and folded with clue hidden in center. Bowl. empty jar class. Pipettes or way to drop water onto bowl. Container of water.

Notes: This experiment worked in my science class, but only one flower attempted to bloom here. Not sure what I did wrong...so the girls manually made them bloom.



Puzzle #5: Hidden Message. Hidden at the American Flag will be two bags with supplies.

Supplies: 10 Secret messages . Zip lock bag. Blue, Red and black Sharpies. Light blue fine tipped Sharpie. Each shape had a number and letter attached. **Spelled out: Fizzy Snowball**



Experiment #6 (Fizzy snowball). Melt a snowball with hidden duck inside. Dissolve snowball to find hidden duck.

Supplies: Premade baking soda and dish soap snowballs with ducks inside. Mini ducks. plates, Pipettes. Cups with vinegar.



Puzzle #7. Get your ducks in a row. Ducks are numbered 1-10 and letters that spell out: You * Did * It! Paper at Fizzy snowball station said get ready to get your ducks in a row.



Final Experiment: Elephant Toothpaste!

Supplies: table cloth, trays, bottles, glass jar, hot water, yeast, dish soap, food coloring, spoon

Notes: Make sure the water is HOT to dissolve the yeast and make sure you shake up the dish soap and peroxide before adding!



General Supply List:

2 small white boards or dry erase workbook. (I have permanent and dry erase markers.)

Paper Towels

Big box of Baking Soda

1 Gallon Vinegar

Popsicle Sticks

Small bag of Lima Beans (I have rocks I can paint white for the other part)

50 Foam Plates

Pepper
Small Dish Soap
Small Glass Jars about 20-30
At least 20 Q tips
DIY Scratch off tickets (dish soap and acrylic paint).
5 copies of the Flower Clip art printed off. [blooming paper flowers](#).
10 bowls
sandwich sized zip lock bags
Beakers
Pipettes
Mini-ducks (I have these)
Table clothes for each table
Elephant Toothpaste: Yeast, hot water, food coloring, bottle, jar, funnel, spoon for dissolving yeast, tray, hydrogen peroxide (salon strength), dish soap

Scared pepper: [Dancing Pepper and Soap Experiment](#)
Dancing beans: [Flying Ghosts Science Experiment with Baking Soda and Vinegar - Happy Toddler Playtime](#)
Elephant Tooth paste: [Elephant Toothpaste](#).
Fizzy Snowballs: [Fizzy Snowflakes](#)
Exploding Snowman: [DIY STEM Project For Kids: Exploding Snowman](#)
Blooming Flowers: [Blooming Paper Flowers Experiment](#)
Hidden Message: ([Free Printable Secret Message Cards + Paper With Canon PIXMA - Something Turquoise](#))

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Designed in mind for Cadettes.