Fizz test sheet

Safety Chief's stamp

Guess first. Then test. Mix it. Watch it. Write it down.

Chemist: _____ Safety Chief: _____

1 Which powder makes a gas?

Cup	My guess	Bubbles?	It was...
 **Cup A**		yes / no	
 **Cup B**		yes / no	
 **Cup C**		yes / no	

Use the same splash of vinegar for every cup, so the test is fair. No tasting!

2 Balloon test

Balloon	My guess	Strip length	Biggest?
1 Tiny spoon ¼ teaspoon			
2 Big spoon 1 tablespoon			
3 My own idea			

Same bottle, same half cup of vinegar every time. Change only the baking soda.

Tape your strips side by side on a wall or a big sheet of paper. You made a bar graph!

Tape your strips here, starting at the line.

1
2
3

Safety Chief's cheat sheet

Your job: be the Safety Chief

1. Everyone near the fizz wears goggles or sunglasses. Vinegar stings eyes.
2. No tasting. Chemists never taste a test, not even the flour.
3. You handle the balloons. Balloons never go in mouths.
4. Never put a cap on a fizzing bottle. Only a balloon.

Grown-ups: tests can surprise you. Here is what to do.

If this happens	Do this
Cup A or cup B fizzes	Some baking soda got in. Wash the spoon, make that cup again and test it.
Cup C hardly fizzes	Stir it. Then add a second splash of vinegar.
The powder won't drop out of the balloon	Lift the balloon straight up and give it a gentle shake.
The balloon pops off the bottle	Stretch the neck farther down the bottle. Hold it there while it fills.
The balloon hardly grows	Stretch the balloon a few times first. Check the neck fits tight, with no gaps.
A balloon breaks	Pick up every piece at once and throw them away. Pieces are a choking risk.
Your chemist wants to try something new	Say yes! Test it the same way and write it down as test 3.

Spills wipe up with a damp cloth. Pour leftovers down the sink with running water, and rinse the bottles.

Balloons are a choking risk for children under 8. Grown-ups handle the balloons and pick up any broken pieces at once.