

Our Team's "Chemical Detective" Lab Report!

Name: _____

Team Name: _____

Our Scientists:

Part 1: Our Mystery Question

Our Big Question: When we mix things like hydrogen peroxide and yeast, do they just mix together, or do they make completely new stuff?

Part 2: What We Did - Our Experiments!

We did two main experiments.

Experiment 1: The Original Magic Foam

What we used:

- Bottle
- Hydrogen Peroxide
- Dish Soap
- Yeast mixed in warm water

Draw what our experiment looked like before and during the foam!

Before	During

Experiment 2: Our Team's Special Test!

What we changed for this test: (Circle what your team did!)

- Used **more yeast**
- Used **less yeast**
- Used **cold water** for yeast
- Used **hot water** for yeast
- Other idea:

What we used:

- Bottle
- Hydrogen Peroxide
- Dish Soap
- **Our special yeast mix (what we changed!)**

Draw what our special test looked like before and during the foam!

Before	During

Part 3: What We Saw - Our Clues!

Check the boxes for what you observed in BOTH experiments.

Clues that new stuff might be made (Chemical Change Clues):

- ☐ **New bubbles/gas** (lots of foam!)
- ☐ The bottle felt **warm** (temperature change)
- ☐ A **new smell** (that wasn't there before)
- ☐ A **new color** (that wasn't from food coloring)

Part 4: Our Conclusion - Solving the Mystery!

Based on your clues, did mixing the hydrogen peroxide and yeast make a *new substance*?

- Yes!
- No.

Explain your answer using your clues. (Write down your reasons!)

We think that a **new substance was / was not** (circle one) made because:

(For example: "We saw lots of new bubbles, which means a gas was made! And the bottle got warm, which is a clue that new stuff is forming.")
