

OBSERVE
QUESTION
EXPERIMENT
LEARN



MY FIRE CIDER LAB

Set Up My Experiment

A Kitchen Science Investigation



1. MY QUESTION

What do I want to find out?



2. WHAT I ALREADY KNOW

What do I already know about vinegar, plants, or extraction?



3. MY HYPOTHESIS

I predict that...



4. MY EXPERIMENT

Color the ingredients you used. Cross out any you didn't include.



Draw your ingredients in the jar.



garlic



ginger



horseradish



onion



turmeric



hot pepper



orange



lemon



thyme



rosemary



black pepper

Other ingredients I added: _____

Ingredients I didn't include and why: _____

I used _____ to cover all my ingredients.

5. DAY 1 OBSERVATIONS

What did you observe on the first day?



What does it look like?



What does it smell like?



What colors do you see?

Any other observations or thoughts?

6. LAB VOCABULARY

Write a simple definition for each word.

Extraction _____

Acid _____

Surface Area _____

Compound _____

pH _____

7. THINK LIKE A FOOD SCIENTIST

What would you observe?

1. Why do we chop or crush the ingredients instead of leaving them whole?

2. What do you predict will change the most as the ingredients sit in vinegar (color, smell, or appearance)? Why?

OBSERVE
COMPARE
REFLECT
LEARN



MY FIRE CIDER LAB

Continue My Experiment

A Kitchen Science Investigation



1. DAY 7 OBSERVATIONS

Date: _____



What does it look like?



What does it smell like?



What colors do you see?

Any other observations or thoughts?

2. DAY 14 OBSERVATIONS

Date: _____



What does it look like?



What does it smell like?



What colors do you see?

Any other observations or thoughts?

3. DAY 21 OBSERVATIONS

Date: _____



What does it look like?



What does it smell like?



What colors do you see?

Any other observations or thoughts?

4. DAY 28 OBSERVATIONS

Date: _____



What does it look like?



What does it smell like?



What colors do you see?

Any other observations or thoughts?

5. REVIEW THE RESULTS

What changed over time? Compare your Day 1, 7, 14, 21, and 28 observations. What stayed the same? What was different?

6. MY CONCLUSION

What did you learn from this experiment? Was your hypothesis correct? What would you do the same or different next time?
