

7th Grade Science
Boiling Water In A Paper Pan Experiment

Name _____
Date _____ Time _____

Title: _____

Purpose: _____

*After having this lab explained to you, make a hypothesis about what you think will happen.

Instructions: Listen to all teacher instructions carefully!! If you do not follow instructions and safety rules, you will not be allowed to do the lab.

1. Design a paper pan. You will be given a piece of paper and you must fold it in such a way that it will hold water. Staple the sides of the pan so it won't come apart. Your pan must be approved. TVS _____
2. Lightly oil the bottom and sides of the pan so that the water will not leak through the pan. Without the oil, the water soaks through the paper and the pan leaks within a few minutes.
3. Set up your ring stand and burner. Fill the "pan" with water; ONLY ENOUGH TO COVER THE BOTTOM AND THEN A LITTLE BIT MORE!
4. Light the burner and attempt to boil the water.
5. If it boils, get a TVS _____

Analysis Questions:

1. Why do you think the paper doesn't burn? _____
2. According to your teacher, at what temperature does water boil? _____
3. At what temperature does paper burn? _____
4. With water in the paper pan, what is the highest temperature that the paper can get to? _____
5. Why does the water boil before the paper burns? _____

Conclusion:

