

# Boiling Point of Water

Your Name  
Ms. Schulz  
SNC2D  
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**Question:**

What is the boiling point of water?

**Hypothesis:**

I predict the water will boil at 100 degrees.

**Comment [Vs1]:** Hypothesis is missing any description of the science related to the experiment that would support the prediction as stated. Not written in third person.

**Materials:**

- Tripod
- Beaker
- Thermometer

**Comment [Vs2]:** Missing retort stand; Bunsen burner; beaker size; tongs

**Procedure:**

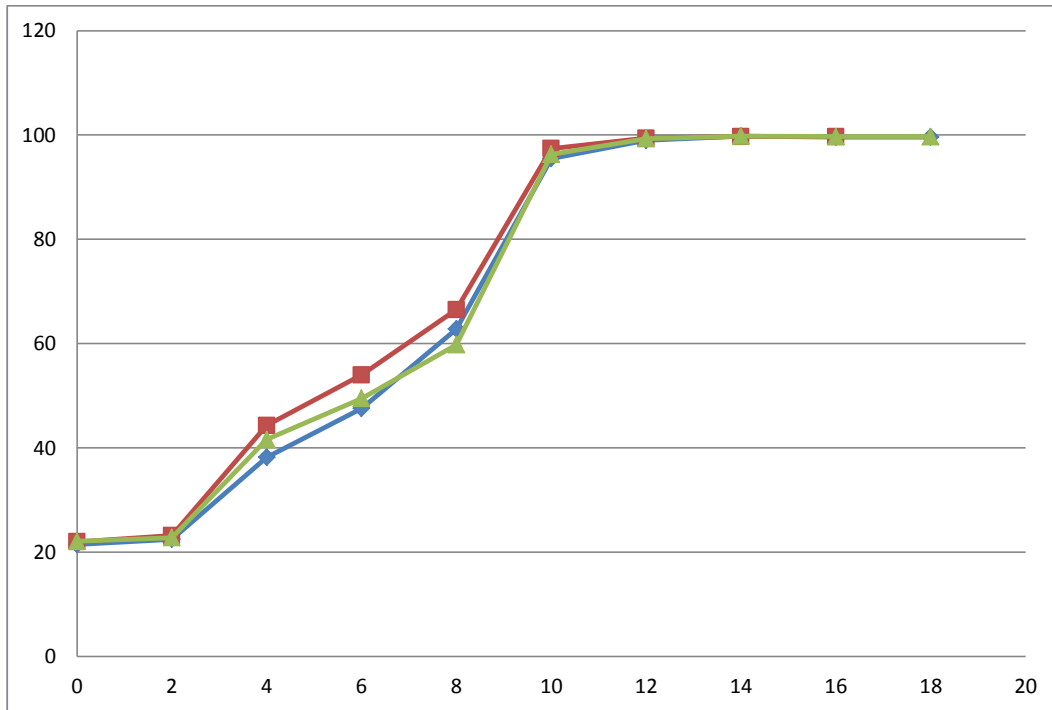
I poured 250 mL of water into a beaker and put it on a hotplate. I then read the thermometer every 2 minutes to see when the water boiled.

**Comment [Vs3]:** Procedure NOT written in step-wise fashion; NOT written in third person; Missing details like type of water to be used, when to end timing, and safety measures for transfer of beaker. Procedure could not be accurately reproduced.

**Results:**

Time	Temperature		
	Trial 1	Trial 2	Trial 3
0	21	22	22
2	22	23	22
4	38	44	41
6	47	54	49
8	62	66	59
10	95	97	96
12	99	99	99
14	99	99	99
16	99	99	99
18	99		99

**Comment [Vs4]:** Table is missing title; does NOT include units of measure; measurements are NOT written in correct significant digits; table formatting needs to be considered



**Comment [Vs5]:** Graph is missing main and axes titles – can't tell what is being measured on x or y axis; missing legend

**Comment [Vs6]:** Missing observations

**Discussion:**

Water can be found in three states; solid, liquid, or gas. When water reaches its boiling point, it changes from a liquid to a gas. Increasing the temperature will cause water to change from a liquid to steam. We can see this happening by taking the temperature of the water over time.

**Comment [Vs7]:** Provides a minimal description of the basic science involved in the experiment; missing discussion of intermolecular forces, kinetic energy, effective collisions, and phase changes. NOT written in 3<sup>rd</sup> person/past tense.

We saw that the temperature when the water came to a boil was 99 degrees. Our hypothesis is right. Our graph shows that the water boiled at 99 degrees and became steam.

**Comment [Vs8]:** Provides minimal summary of results; does NOT relate results to basic science involved in the experiment; hypothesis is written incorrectly – it is either accepted/rejected based on results; refers to graph with NO relation to patterns/trends in the data. NOT written in 3<sup>rd</sup> person/ past tense.

**Conclusion:**

Our test showed that water will boil at 99 degrees. I learned a lot from this experiment.

**Comment [Vs9]:** Very brief summary of overall results; no ideas for future tests. NOT written in 3<sup>rd</sup> person/ past tense.