Inq. 4.1: Air and Surface Temperatures

Name _____
Date _____
Period _____

Testable Question:
(1) How does the temperature of a surface (ex: cold or hot water) affect the _____ of the air above it?

Materials: Two "convection tubes" with thermometers, two small cups, ice water, hot water, stopwatch

Set-Ups: Sketch **and label** the two set ups here:

(2 pts)	(2 pts)

(1) **Manipulated Variable** (The one thing we're changing between the two set-ups)

_____

(1) **Response Variable** (Data we will record and measure)

_____

(5) **Variables to keep the same for a fair test:**

Amount of water = _____
Observation interval = _____
Temperature Unit = _____
Position of "surface" = _____
Position of thermometer = _____

(4) ***Procedure:** On a separate piece of paper, write the procedure in list form.

(1) **Hypothesis or Prediction:** *What do you think* is the answer is to the testable question?

_____

_____

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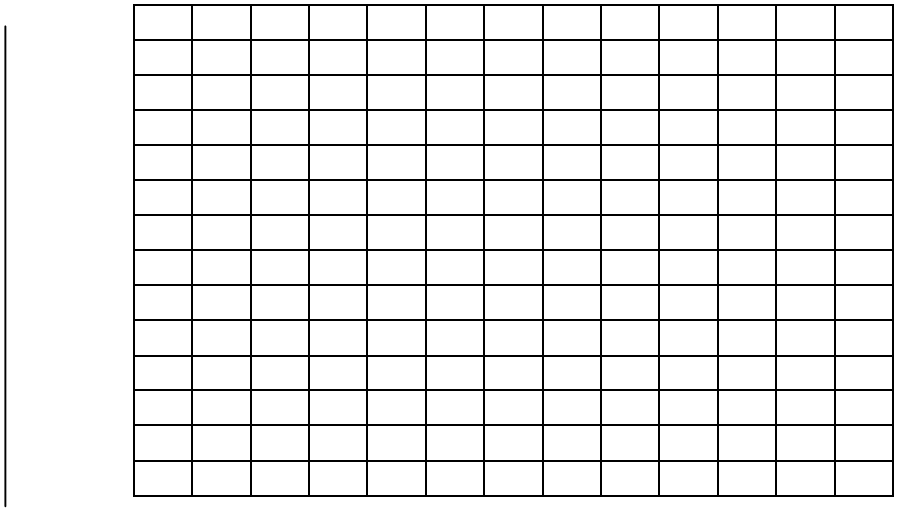
(3) **Data Collection:**

Title:

Time (min)	Air Temperature over Hot Surface (°C)	Air Temperature over Cold Surface (°C)
0:00		
3:00		
6:00		

(8) **Data Presentation:** (HINT: it's a bar graph)

Title:



KEY:

_____

(2) **Conclusion:**
What is the answer to the testable question?

_____

_____