

5a

Conditions for a Fire

Investigation

Boiling Water Lab

A. Record the results of the *Boiling Water Lab* below:

Results

1. Cup with water

What happened?

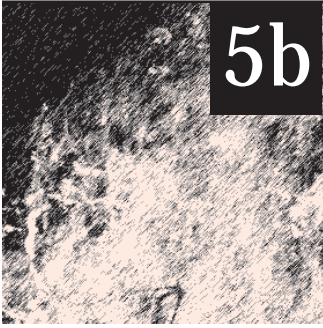
2. Cup without water

What happened?

B. Using complete sentences, answer the questions using your observations from the *Boiling Water Lab*.

1. Why is it hotter in the inland valleys of Los Angeles (San Fernando and San Gabriel), than near the ocean?

2. Based on what you know about specific heat, explain why the cup of water did not burn during the *Boiling Water Lab*.



5b

Conditions for a Fire Investigation

Fuel Combustion Lab

A. Record the results of the *Fuel Combustion Lab* below:

Specimen	Time it Takes to Ignite
Green Twig	_____ minutes and _____ seconds
Dry Twig	_____ minutes and _____ seconds

B. Using complete sentences, answer the questions using the data collected from the *Fuel Combustion Lab*.

1. How long did it take the green twig specimen to ignite? _____
Why? _____

2. How long did it take the dry twig specimen to ignite? _____
Why? _____

3. Which specimen do you think had the higher moisture content and why?

4. Which specimen do you think had the lowest moisture content and why?

5. Why is it harder to get wet wood hot enough to burn than it is to get dry wood hot enough? _____
