

Name: _____ Date: _____ Block: _____

2.2

Unit 1 What is Fire? How do we control it?

Bow Drill Fire Lab

Purpose:

Materials:

- Bow Drill
- Fire Board
- Jute Tinder for nest
- Ember catch (the cardboard)
- WD40
- Metal Pan
- Water
- Fire Extinguisher

Group Roles:

Role	Description	Group Member
Chief Pyrotechnic	Manager role. Makes sure everyone is included and is getting a turn to do the cool stuff!	
Chief Journalist	In charge of recording observations and writing what their group is trying each time. What worked and what didn't? Interviews various group members.	
Fire Technician	In charge of obtaining and carrying materials. Asks Ms. Sowa for materials assistance.	
Fire Ambassador and Safety Chief	Shares best practices with other groups and gets ideas from other groups. Ensure group is conducting experiment under safe conditions.	

Safety

- Drop burning nest into the metal bins
- Listen to your arm - it will get tired
- Be mindful and respectful of those who can't "go to town" on the bow drill.
- Position yourself so the wind is hitting your back. This will minimize smoke inhalation.

Observations and Results - A brief description of your successes and failures. For this lab, observations (qualitative data) will be sufficient.

Macroscopic Drawing

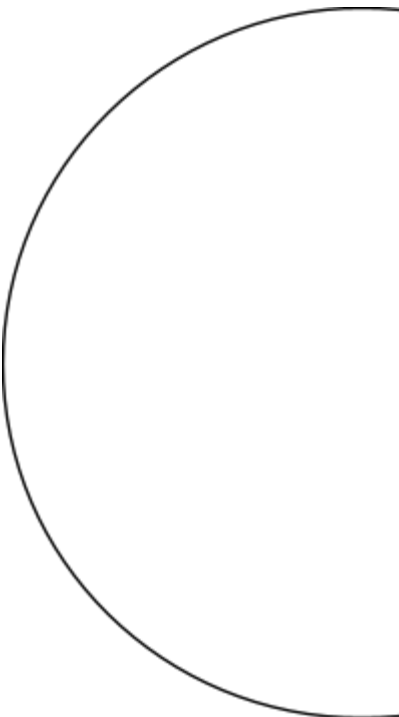
Create a macroscopic model of the fire creation process.

Conclusions: Write a paragraph summary of what you learned from this lab. Were you successful? How do you know? What might you do differently if you were to repeat this lab?

Burn Evidence:

Block:

Signatures

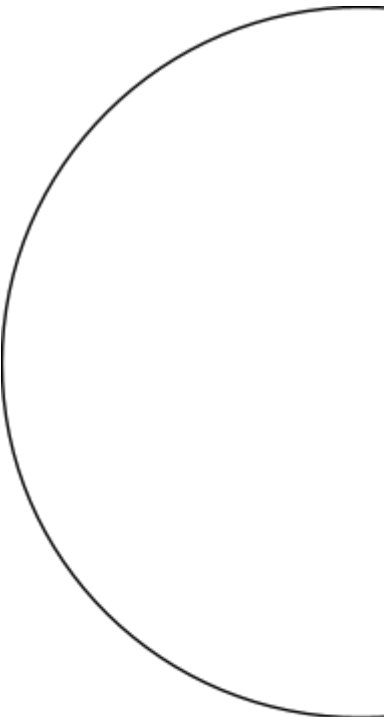


Put burn mark here

Burn Evidence:

Block:

Signatures



Put burn mark here