

Josie Sitton
Time and Temperature of Wood

This project was designed to figure the time and temperature of wood to see which of the two types I chose to burn will burn longer and hotter. I chose this project because I have been around wood and fire for most of my life and I thought it would be a fun experiment to test the time and temperature of two different wood samples.

I chose to burn pine pitch and oak. My dad split the wood for me and we weighed the split wood with a baby scale into 6 ounces for each burn. I used a can to burn the wood in, which was then set inside our wood burning stove at home. On the outside of the can was a magnetic temperature gauge. As the wood burned and grew hotter I recorded the temperatures every minute from start at 0 degrees to the end which was also 0 degrees. I burned 3 batches of pine pitch and 3 batches of oak.

Originally I thought the oak would burn longer and hotter and in my results discovered that the pine pitch burned longer and hotter instead. I found this to be useful information to have since we own and operate a wood burning stove as a partial source of heat for our house. My research will benefit others by showing which wood will be a more accurate temperature and time for a wood burning stove.