In my project I tested which kind of wood burned the hottest and the longest. My purpose of this experiment was to help people who have an old fashioned fire place. That way you know which wood to burn in it. In my hypothesis I said that more dense woods would burn hotter and longer. I made this prediction off background knowledge and my own experience burning wood when I go camping. My materials were three one gram pieces of each of these woods, cedar, Douglas fir, pine, walnut, oak, alder, red wood, commercial fire starter, commercial fire log. I also used two tin cans, wire mesh, bend able lighter, copper rod, and a ceramic dish, for my project. In my results the commercial products would be the best to use for heat only if you had a lot of money to use. It would be best to use pine wood for a fire heating or just for a campfire. I think this test will help people warm there homes with fire with the right affordable wood. My conclusion stated that my hypothesis was wrong because the more dense woods did not burn hotter or longer then the less dense wood. After the test, the reason my hypothesis was wrong was because the more dense woods were harder to start.