

Burn Baby Burn

M7-5 PHYSICS

Question

What flammable material affects a contained and controlled fire the most?

Abstract

My topic for science fair this year is to find out what flammable material affects a contained and controlled fire the most. In other words, I will be using different materials to see which supports a burning fire the longest. I have my independent variable; the material I use in the fire. I have my dependent variable; the time the fire stays burning. Finally, I have my constants; the area the fire is in, the air around the fire, the barriers that contain the fire, and the mass of the burning objects. My hypothesis is that the wood will last the longest amount of time in the fire, therefore burning the longest, because it has nutrients that leaves and paper don't have to burn.

Hypothesis



If I burn the wood, then it will burn the longest because wood has more biological materials than paper or leaves.

Procedure

1. Gather Materials
2. Separate materials into 20 sets
3. Burn each set separately and time the amount of time it takes to burn
4. Record data in chart

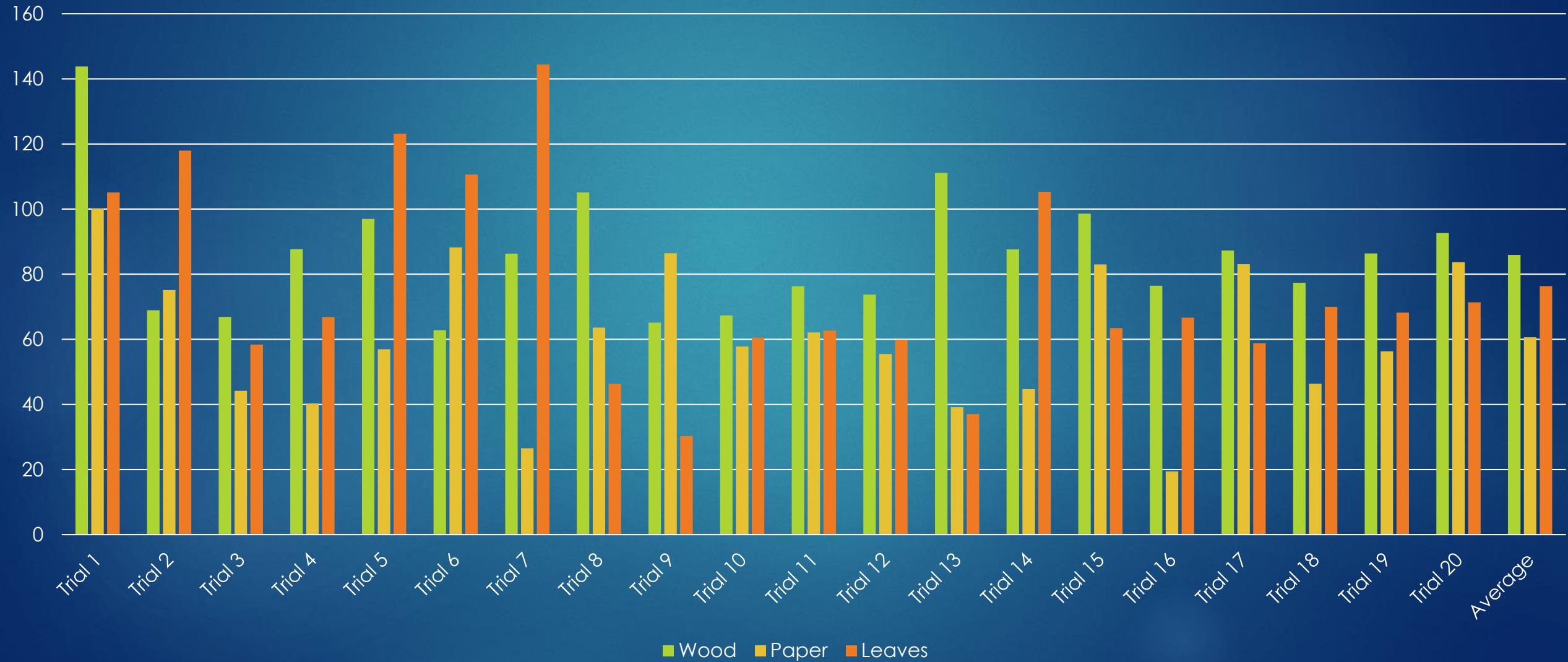
Materials

- ▶ 100 Sheets of paper
- ▶ 4 pounds of wood
- ▶ 4 pounds of leaves
- ▶ Lighter
- ▶ Flame-Proof bowl

Results and Data



Time Material Burned



Conclusion

To come to conclusion after my experiment, the wood has showed to burn the longest and paper to burn the shortest amount of time, proving my hypothesis.

Bibliography

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