

# Fire & Fuels Introduction

10SCIE - Fire & Fuels

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## Learning Outcomes

- Refresh lab safety
  - Burns first-aid
  - Refresh chemistry knowledge
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## Starter

Look up the temperature at which these fuels burn and place them in order from coolest to hottest.

- Wood, petrol, candle, LPG, coal
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## Answer

1. Wood (275°)
  2. Petrol (280°)
  3. Candle (390°)
  4. LPG (500°)
  5. Coal (750°)
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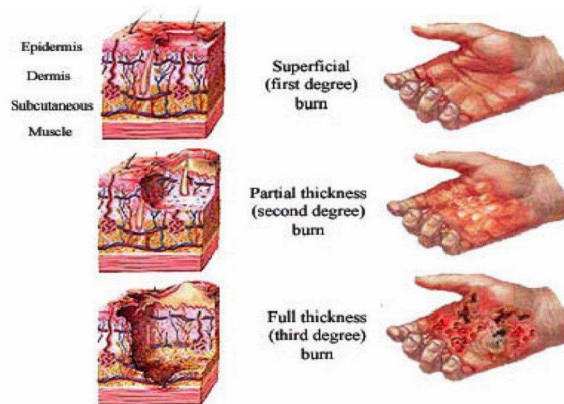
## Lab Safety

- Must wear safety glasses
- Must tie up long hair
- Must attend to loose clothing



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## Burns



Run under cold water for at least 20 minutes.

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## Chemical Reactions

- When one or more substances combine to form new substances
- Atoms and molecules split, swap or decompose
- $reactant + reactant \rightarrow product + product$
- $methane + oxygen \rightarrow water + carbondioxide$
- **Burning** (combustion) is a type of reaction