

Chemistry

Name: _____

Fireworks WebQuest

Date: _____

Go to the following website:

<http://www.glencoe.com/sec/science/webquest/content/fireworks.shtml>

Follow the instructions given for 'The Chemistry of Fireworks' (the questions are also on the website)

Questions about the Chemistry of Fireworks

1. What exactly is a firework?
2. Where and when were the first fireworks invented?
3. Who were the first Europeans to master fireworks?
4. What type of simple chemical reaction occurs in fireworks?
5. What are the components of black powder? What are the ratios of these components?
6. What three processes cause fireworks to emit light?
7. What types of elements are responsible for the colors of fireworks?
8. What is responsible for the whistling sound that often accompanies fireworks?
9. What are the component parts of modern fireworks? What does each part do?
10. Create a table that lists the chemical compounds that create the following colors of fireworks: blue, turquoise, yellow, pink, red, brilliant red, green, bright green, purple, white. You may use chemical formulas rather than common names of compounds in your table.