Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hr.\_\_\_\_\_\_\_\_

|  |
| --- |
| Materials: Reprint of “Sugar, An Unusual Explosive” from ChemMatters December 2010, which we divided into two parts, both for the same day: **Section A: the first ten paragraphs****Section B: the rest of the article.** |

1. Make your key to show what symbols you used when marking the text.

|  |
| --- |
| Main ideas are marked by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Vocabulary you want to look up is marked by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Things you wonder about are marked by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

1. With a partner create a **Venn Diagram** where the two circles are “sugar combustion” and “sugar explosion”.



1. Answer the following questions\*. (DO NOT DO THIS UNTIL STEP 2 THROUGH 6 ARE COMPLETE)
2. Hand in (okay to stack if too thick to staple):
	1. marked up reading
	2. Venn diagram
	3. Answered questions

|  |
| --- |
| \*Here are the questions for the Part B sheet:* 1. What factors affect the rate of a reaction?
	2. What causes the difference between a slow reaction and fast reaction of the combustion of sugar?
	3. Explain what is meant by surface area, and how does it change the rate of a reaction.
	4. Making a shape modified from Figure 2, sketch here a model that shows something that has the same total volume but more surface area than (a) but less than (b)
 |