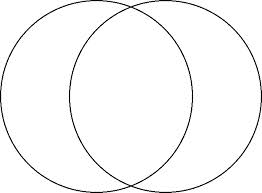
Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hr.\_\_\_\_\_\_\_\_

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| 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.

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| 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

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| \*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) |