Hoch Topic - Key words, symbols, and phrases

**The purpose of these activities is to:**

* **Teach students a quick way of notetaking.**
* **Provide a universal language of symbols for notes across subject areas**
* **Aid students in picking out important details.**
* **Helps students to identify the general idea of writing.**
* **Helps students identify the purpose of their writing**
* **Ability to summarize**

**Tips:**

* **Focus on introducing one symbol a day. Start with +. You can teach the new symbols based on the table below.**

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| **Week** | **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** |
| **1** | **+** | **=** | **p. (page)** | **e.g. (example)** | **b/c** |
| **2** | **→** | **w/** | **w/o** | **vs.** | **Review** |
| **3** | ↑ | ↓ | **max.** | **min.** | **Review** |

* **Teach students both converting from text to symbols and symbols to texts.**

**Scaffolding:**

* **Have print-outs of the symbol key on the next page to tape on student’s desk. Make sure to put up the Hochman poster in your room, too!**

**Check out these examples of activities you can use to help your students learn about topic sentences!**

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| Symbol Key  **=** …………………… means, that, equals, is, worth  **+** .............................. and, with, also  **→** …………………… led to, results in, causes  ↑……………………increase/more  ↓……………………decrease/less  **/** ……………………. Comma or period, new idea |

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| Classroom Activity: Science  Example:   1. Biology is the study of all living things. 2. *biology = study/living things*   B. Life processes are carried out by all living things.  2. *Life processes = carried out/living things*  C. The sum of all life process is metabolism.  *3. Metabolism=all life processes.* |

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| Symbols Matching  Directions: Match each complete sentence with the matching notes.   1. Thanksgiving is a favorite holiday. A. Trick or Treating = candy 2. Christmas and Halloween are holidays. B. Thanksgiving = favorite holiday 3. Trick or Treating leads to candy. C. Fourth of July/Memorial   Day/Presidents day = patriotic holidays   1. Fourth of July, Memorial Day, D. Christmas + Halloween = holidays   and Presidents’ Day are all patriotic holidays |

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| **Classroom Activity**: Social Studies  **Directions**: Convert sentences into key words, abbreviations and symbols.  1. Artifacts are man-made objects.  Artifacts = man-made objects\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2. Artifacts are weapons, pottery, bowls and tools.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3. Using artifacts leads to the discovery of clues about ancient civilizations.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| **Classroom Activity**: Romeo and Juliet  **Directions**: Convert sentences into key words, abbreviations and symbols.  1. Capulets are enemies of the Montagues.  Capulets = enemy/Montague\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2. Romeo and Juliet die because their families rancor.  Families rancor → Romeo+ Juliet /death\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3. Tybalt killing Mercutio causing Romeo to kill Tybalt.  Tybalt killing Mercutio → Romeo killing Tybalt \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    4. More people die as the plot progresses  Plot ↑ = Death ↑\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  5. The deaths of Romeo and Juliet cause great sadness in their parents  Romeo/Juliet death = happiness ↓\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| Directions:   * Look at the graph below. * Read the accompanying description. * Translate each sentence into corresponding keywords and symbols.     Juan hiked for five hours and graphed his distance as shown above. For the first hour he increased his distance at a rate of 2 mph. Then, he continued to hike but decreased his speed to 1.5 mph. He continued but slowed down more to 1 mph. After three hours of hiking he slowed down to 0.5 mph. He reached his maximum distance after 4 hours. His maximum distance was 5 miles.   1. For the first hour he increased his distance at a rate of 2 mph.   Distance↑@ 2 mph  2. Then, he continued to hike but decreased his speed to 1.5 mph  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3. He continued but slowed down more to 1 mph.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4. After three hours of hiking he slowed down to 0.5 mph.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  5. He reached his maximum distance after 4 hours.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  6. His maximum distance was 5 miles.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| *Directions: Convert the notes into a complete sentence.*  1. Mr. Hoehn = Principal of 754x  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2. Doing work → shout outs  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3. My favorite subjects = Math + ELA  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  4. Absences = ↓ grades  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| *Directions: Use the correct manipulative to complete the sentence.*  1. ... the Beautiful quarter, ... = 25 cents    A quarter 25 cents.  2. Dime Obverse 13.png = 10 cents    A dime 10 cents.  3. Dime Obverse 13.png + File:Jefferson-Nickel-Unc-Obv. ... = 15 cents    A dime a nickel 15 cents. |

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| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_  Algebra Regents Prep  Directions:.   * Translate each sentence into corresponding keywords and symbols. * = can be used more than once.   Symbol bank: w/ w/o = + ↑ ↓ max.  1. The Algebra Regents is a test with 24 multiple choice questions.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. To increase your score on the Regents, you must study and complete the classwork everyday.   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. Your score will decrease without answering the extended response.   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 4. Ten is the minimum number of multiple choice questions you must get right to pass.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| Math Symbols  Operations  1. The - symbol represents subtraction **(fewer, decreased, difference, less than…)**  2. The + symbol represents addition **(and, increased, sum, more than…)**  3. The = symbol represents equal **(is, equivalent, results in…)**  4. The ( ) symbol represents grouping and multiplication **(times, product, multiplied by…)**  5. The / symbol represents division **(per, quotient, divided by…)**  More Advanced Operations  6. A letter (x, y, z, h…) represents a variable **(a number, unknown value…)**  7. The symbol represents the square root **(finding the number that multiplied by itself makes x)**  8. The | x | represents absolute value **(how far a number is from zero, make x positive)**  9. f(x) represents a function  Sequence  10. means the first number in a sequence  11. means the number you are looking for in a sequence  12. means the number before the one you are looking for in a sequence  Inequalities  13. > means greater than **(more than, larger than, over, exceeding)**  14. < means less than **(fewer than, smaller than, below, under)**  15. > means greater than or equal to **(at least, price ceiling, no less than, not below)**  16. < means less than or equal to **(at most, price floor, no more than, not above)** |