**Lesson Plan~The Academy for Technology & the Classics~Cultivating Fearless Learners**

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| **Instructor’s name:**  **Shain, Gotcher** | **Course/Grade:**  **ARM** |
| **Week of:**  **Jan. 11 - 15** | **Unit Name:**  **Hatchet, Linear Equations** |

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| ***(1A)\**Essential Question(s):**  **What is your plan to survive in the wilderness? Explain.** | ***(1A/1B)* Connections (prior/future learning):**  **Getting lost in the mountains; having a BIG problem to deal with** |
| ***(1A)* Common Core/State Standards:**  ***(1A)* Common Core/State Standards:**  1. Apply and extend previous understandings of operations with  fractions to add, subtract, multiply, and divide rational numbers.  2. Apply and extend previous understandings of multiplication and  division and of fractions to multiply and divide rational numbers.  3. Use proportional relationships to solve multistep ratio and percent  problems. *Examples: simple interest, tax, markups and markdowns,*  *gratuities and commissions, fees, percent increase and decrease, percent*  *error.*  **Expressions and Equations 7.EE**  **Use properties of operations to generate equivalent expressions.**  1. Apply properties of operations as strategies to add, subtract, factor,  and expand linear expressions with rational coefficients.  2. Understand that rewriting an expression in different forms in a  problem context can shed light on the problem and how the quantities  in it are related. *For example, a + 0.05a = 1.05a means that “increase by*  *5%” is the same as “multiply by 1.05.”*  **Solve real-life and mathematical problems using numerical and**  **algebraic expressions and equations.**  3. Solve multi-step real-life and mathematical problems posed with  positive and negative rational numbers in any form (whole numbers,  fractions, and decimals), using tools strategically. Apply properties of  operations to calculate with numbers in any form; convert between  forms as appropriate; and assess the reasonableness of answers using  mental computation and estimation strategies. *For example: If a woman*  *making $25 an hour gets a 10% raise, she will make an additional 1/10 of*  *her salary an hour, or $2.50, for a new salary of $27.50. If you want to place*  *a towel bar 9 3/4 inches long in the center of a door that is 27 1/2 inches*  *wide, you will need to place the bar about 9 inches from each edge; this*  *estimate can be used as a check on the exact computation.*  4. Use variables to represent quantities in a real-world or mathematical  problem, and construct simple equations and inequalities to solve  problems by reasoning about the quantities.  a. Solve word problems leading to equations of the form *px* + *q* = *r*  and *p*(*x* + *q*) = *r*, where *p*, *q*, and *r* are specific rational numbers.  Solve equations of these forms fluently. Compare an algebraic  solution to an arithmetic solution, identifying the sequence of the  operations used in each approach. *For example, the perimeter of a*  *rectangle is 54 cm. Its length is 6 cm. What is its width?*  **ELA - Key Ideas and Details**  1. Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual  evidence when writing or speaking to support conclusions drawn from the text.  2. Determine central ideas or themes of a text and analyze their development; summarize the key supporting details  and ideas.  3. Analyze how and why individuals, events, and ideas develop and interact over the course of a text.  Craft and Structure  4. Interpret words and phrases as they are used in a text, including determining technical, connotative, and figurative  meanings, and analyze how specific word choices shape meaning or tone.  5. Analyze the structure of texts, including how specific sentences, paragraphs, and larger portions of the text  (e.g., a section, chapter, scene, or stanza) relate to each other and the whole.  6. Assess how point of view or purpose shapes the content and style of a text.  Integration of Knowledge and Ideas  7. Integrate and evaluate content presented in diverse formats and media, including visually and quantitatively, as  well as in words.\*  8. Delineate and evaluate the argument and specific claims in a text, including the validity of the reasoning as well as  the relevance and sufficiency of the evidence.  9. Analyze how two or more texts address similar themes or topics in order to build knowledge or to compare the  approaches the authors take.  Range of Reading and Level of Text Complexity  10. Read and comprehend complex literary and informational texts independently and proficiently. | |
| ***(1E)* Other considerations (modifications, accommodations, acceleration, ELL, etc.**  **All accommodations and modifications indicated in student IEPs will be followed. Any needs of ELL students (modification of assignment length, modification of assignment complexity, modification of source reading, etc.) will be implemented.** | ***(1D)* Resources/Materials:**  Student flashcards, computers, Hatchet novel and Literature Circle jobs. |
| ***(1F)* Assessment (How will you monitor progress and know students have successfully met outcomes? What happens when students understand and when they don’t understand?**  **Daily: Math drills**  **This Week: Hatchet** | |

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| MONDAY  ***(1C)* Learning Target: I will continue Chapter 1. I will participate in the dissection of Vocabulary Words, and complete the Diction Detective Role Sheet – as a group.**  ***(1C)* Do Now: Math drills** | (***1F)*Embedded Formative Assessment: Progress on Ch. 1**  ***(1B)*Closing Activity: Categories** |
| TUESDAY  ***(1C)* Learning Target: I will further understand one-step and two-step linear equations. I will work on Dr. Brown’s assignment.**  ***(1C)* Do Now: Math drills** | (***1F)*Embedded Formative Assessment: Progess on math homework.**  ***(1B)*Closing Activity: Math relay** |
| WEDNESDAY  ***(1C)* Learning Target: I will complete work on Chapter 1.**  ***(1C)* Do Now: Math drills** | (***1F)*Embedded Formative Assessment: Complete work on Ch. 1.**  ***(1B)*Closing Activity: Analogies** |
| THURSDAY  ***(1C)* Learning Target: I will work on Kahn Academy or complete my work for Dr. Brown**  ***(1C)* Do Now: Math drills** | (***1F)*Embedded Formative Assessment: Work on relevant math skills.**  ***(1B)*Closing Activity: Math Round the World** |
| FRIDAY  ***(1C)* Learning Target: I will read Ch. 2 and collaborate on understanding the Vocabulary. I will begin work on the Discussion Leader Role Sheet – as a group.**  ***(1C)* Do Now: Math drills** | (***1F)*Embedded Formative Assessment: Participation on Chapter 2 Vocabulary conversation.**  ***(1B)*Closing Activity: Following directions exercise.** |
| **Vocabulary – see list** | |
| **Latin/Greek Roots** | |
| **Literary Elements/Rhetorical Devices** | |

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| \*Refers to NMTEACH Rubric:  1A-Demonstrating knowledge of content  1B-Designing coherent instruction  1C-Setting Instructional outcomes  1D-Demonstrating knowledge of resources  1E-Demonstrating knowledge of students  1F-Designing student assessment | Formative Assessment includes, but is not limited to:  Exit tickets, white board response, consensagrams, red/green cards, formal or informal student conferences, sticky note assessment. |