

Hellgate Elementary School District #4 – 8th Grade

Mathematics	English Language Arts/Reading	Social Studies	Science	Whole Child Skill Development
<p align="center"><u>Big Ideas Math</u></p> <p>Algebra</p> <ul style="list-style-type: none"> • Solving Linear Equations • Graphing & Writing Linear Equations • Solving Linear Inequalities • Solving Systems of Linear Equations • Linear Functions • Exponential Equations & Functions • Polynomial Equations & Factoring • Graphing Quadratic Functions • Solving Quadratic Equations • Square Root Functions & Geometry • Rational Equations & Functions • Data Analysis & Displays <p>Math 8</p> <ul style="list-style-type: none"> • Equations • Transformations • Angles & Triangles • Graphing & Writing Linear Equations • Systems of Linear Equations • Functions • Real Numbers & the Pythagorean Theorem • Volume & Similar Solids 	<p align="center"><u>ELA Novels</u></p> <p><i>Code Talker-IEFA</i> <i>The Outsiders</i> <i>Long Way Down</i> <i>Fahrenheit 451</i> <i>The Boys Who Challenged Hitler</i> <i>The House of the Scorpion</i> <i>“A Christmas Carol” Mini Unit</i></p> <p align="center"><u>Step Up to Writing</u></p> <p>Comprehensive Instruction in the Three Types of Writing:</p> <ol style="list-style-type: none"> 1. Informative/Explanatory, 2. Opinion/Argument, and 3. Narrative <p align="center"><u>No Red Ink</u></p> <p>Writing and Grammar Skills</p>	<p align="center"><u>United States History</u></p> <ul style="list-style-type: none"> • Unit 1: Our Colonial Heritage • Unit 2: A New Nation • Unit 3: The New Republic • Unit 4: The Nation Expands • Unit 5: The Nation Breaks Apart 	<p align="center"><u>Science Dimensions</u></p> <p>Life Science</p> <p>Module B: Cells and Heredity</p> <ul style="list-style-type: none"> • Unit 1: Cells • Unit 2: Organisms as Systems • Unit 3: Reproduction, Heredity and Growth <p>Earth and Space Science</p> <p>Module H: Space Science</p> <ul style="list-style-type: none"> • Unit 1: Patterns in the Solar System • Unit 2: The Solar System and Universe <p>Physical Science</p> <p>Module J: Chemistry</p> <ul style="list-style-type: none"> • Unit 1: The Structure of Matter • Unit 2: States of Matter and Changes of State • Unit 3: Chemical Processes and Equations • Unit 4: The Chemistry of Materials <p>Module L: Waves and their Applications</p> <ul style="list-style-type: none"> • Unit 1: Waves <p>Human and Health Development Presentation</p>	<p align="center"><u>CONNECT</u></p> <p>Daily/Weekly meetings for class discussions, reflection, and instruction surrounding whole child skill development.</p> <p align="center"><u>PAX Good Behavior Game</u></p> <p>Trauma-informed, classroom-based intervention that supports self-regulation and pro-social behavior.</p> <p align="center"><u>Second Step</u></p> <p>Designed to reduce impulsive, high-risk, and aggressive behaviors and increase children's social competence and other protective factors.</p> <p align="center"><u>Olweus</u></p> <p>Bully prevention program</p>

<ul style="list-style-type: none"> • Data Analysis & Displays • Exponents & Scientific Notation 				
IEFA Mathematics	IEFA ELA/Reading	IEFA Social Studies	IEFA Science	District/State Assessments
<p>Scientific notation and exponents – carbon dating – identify artifacts used by Native People</p>	<p><i>Code Talker-Indian Boarding Schools, MT Essential Understandings, Navajo Culture and History</i></p>	<p>Native People and Cultures Prior to European Exploration through Reconstruction after the Civil War</p> <p>–Montana History has a lot of Native American history, both within the textbook and in lessons on the mt.gov site:</p> <p>https://svcalt.mt.gov/education/textbook/Introduction.asp</p>	<p>–Patterns in the Solar System: Historical and cultural context for understanding constellations</p> <p>–Cells and Heredity</p>	<p><u>Measures of Academic Progress (MAP)</u> 2 x per year (formative)</p> <p><u>Montana Alternative Student Testing (MAST)</u> 4 x per year (formative/summative)</p> <p><u>Montana Science Assessment (MSA)</u> 1 x per year (summative)</p> <p><u>National Assessment Educational Progress (NAEP)</u> 1 x per year as selected (summative)</p>