

WMS 3rd Quarter Differentiation Report



Equity, access, and high levels of learning for all.

English 3rd Quarter

6th Grade English

3rd QUARTER CURRICULUM

Vocabulary development -- learn new words, learn synonyms and antonyms for the new words, analyze analogies to determine relationships between words

Grammar: Adjectives and Adverbs

Identifying and analyzing persuasive techniques in projects and writings.

Project Based Learning: Students created a Public Service Announcement to inform the school about Plagiarism with an authentic audience of peers.

DIFFERENTIATION, ENRICHMENT, EXTENSIONS

Pretesting for grammar

Differentiation:

Use of NoRedInk (NRI) to enforce understanding of grammar and mechanics in writing. (NRI is a self-differentiating on-line program approved for use by APS.)

Flexible grouping for challenge level writing conferences with teacher.

Extension:

Students who mastered basic writing skills completed writing assignments that were more complex either through topic or structure. For example, some students write a paragraph while others write multiparagraph responses. Some students write on character while others write about theme.

Writing extensions from Williams and Mary Units for the Gifted (e.g., reading comprehension activities on higher-level texts via written response, partner conversations, pair share conversations, etc.)

Group activities planned from Advancing Differentiation Strategies (e.g., questioning formation technique (QFT) activity, Socratic seminars, I-chart for self-reflection/deeper analysis, etc.)

	Students who tested out of regular grammar content were provided with more complex grammar activities.
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6th Grade Reading

3rd QUARTER CURRICULUM Independent Reading Nonfiction and Fiction Mentor Texts Inferring, Fact and Opinion, Organizational Patterns (Text Structures), Main Idea, Comprehension, Fluency, Character Traits, Theme, Questioning Skills, and Context Clues Novel Units/Projects, including historical fiction, realistic fiction (empathy), fantasy, science fiction, and mystery. Vocabulary, including Red Words, Affixes, and Roots	DIFFERENTIATION, ENRICHMENT, EXTENSIONS Choice: Teachers offer a choice of novels based on interest and Lexile level. Students are empowered to learn new vocabulary using multiple strategies such as creating print and digital cards, creating their own red word lists, using Quizlets, and interactive notebooks. Projects for culminating activities to include Socratic seminars, persuasive book reports, and empathy book presentations. Personalized Learning: Opportunities to create their own extension activities or utilize anchor/ challenge activities offered by teacher. Students responsible for their own learning pace to meet objectives. Flexible grouping: Students meet with in small fluid groups (with peers and the teacher) to work on critical thinking strategies. Graphic organizers provided to internalize these skills. Groups are based on students' needs and lesson objectives.
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7th Grade English

3 rd QUARTER CURRICULUM	DIFFERENTIATION, ENRICHMENT, EXTENSIONS
Read World War II novel Wrote a literary analysis/theme essay on a theme of their choice Created a companion book to their WWII novel - including a hook text (creative writing), a multimedia text (an audio or visual text), and an informational text (a text to build background knowledge or clear up questions) Peer and self-review of theme essays and companion books Project Gallery showcasing theme essays and companion books -Independent Reading Books and Projects	Choice In historical fiction novel- Students were offered a choice of 16 World War II novels of different reading levels and topics. Some students read one or two novels. Choice in theme essay topic- Students were offered a choice of 13 topics to explore in their theme essay. Choice in what to include in their companion book. Students were allowed to decide what to include for each type of text (hook, informational, multimedia). Choice in independent reading book Students were guided and encouraged to choose a book that was at or above their challenge level in either Lexile score or in content. Flexible grouping Groups arranged by interest and/or ability were used throughout the quarter during writing workshops, book talks, and grammar review sessions.

8th Grade English

3 rd QUARTER CURRICULUM	DIFFERENTIATION, ENRICHMENT, EXTENSIONS
Persuasive writing. Peer editing. Self-led revision of writing. One on one conferencing. Writing Mechanics (grammar). Independent Reading Novels.	Choice: Multiple opportunities for students to select from a variety of writing prompts. Extension: Students were provided with opportunities to demonstrate comprehension with assignments connected to a wide selection of higher-level questions in order to connect to the world at-large. Students were taught to approach texts using de Bono's Six Thinking Hats.

Socratic Seminar.	Collaboration: Students were given multiple opportunities to collaborate with peers and edit writing for content and clarity. Students were engaged in a Socratic Seminar, in which their team provided textual evidence to support their positions. The students made real world connections from the text to self and the text to world. Differentiation: One on one student to teacher writing conferences used for intervention and extension. To broaden student engagement, students participated in a variety of academic games (such as Kahoot, Socrative, Academic Connect-Four, Academic Nok-Hockey, Academic Golf) Choice in independent reading book Students were guided and encouraged to choose a book that was at or above their challenge level in either Lexile score or in content. Flexible grouping Groups arranged by interest and/or ability were used throughout the quarter during writing workshops, book talks, and grammar review sessions.
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Social Studies 3rd Quarter

6th Grade Social Studies

3rd QUARTER CURRICULUM House of Representatives Legislative Simulation with students taking on different roles (Lobbyists and Committee Members)	DIFFERENTIATION, ENRICHMENT, EXTENSIONS Leveled Reading - different texts provided to students based upon need and challenge level
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Pre-Test for several units with options to work on alternate activities Scaffolded DBQ on Valley Forge and Survival Constitutional Convention Simulation with students assigned different roles with varying degrees of complexity	Enrichment - Gifted Students worked outside of class to prepare their roles as lobbyists in the Legislative Simulation Flexible Grouping - various classroom activities where students are grouped in flexible arrangements to challenge one another
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7th Grade Social Studies

3rd QUARTER CURRICULUM Studied the Civil Rights Movement of the 1950s and 1960s Studied other civil rights movements (women, American Indians, etc.) Research a civil rights movement and create a product to demonstrate understanding Study Rise of Big Business and Economics Complete a Big Business Performance Assessment Task	DIFFERENTIATION, ENRICHMENT, EXTENSIONS Choice Students were offered choices of topic for Civil Rights Research and a choice of the mode of presentation. Students shared their presentations with students from other teams during a gallery walk. Students were able to choose a modern-day business leader or an historic one to focus on for their Big Business PAT. Students chose entry points for study of the 1920s and the Great Depression. Leveled Reading Leveled readings on economic concepts Resources for civil rights research were presented at a variety of reading levels Resources for civil rights research reflected a variety of learning styles and modalities. Anchor Activities Anchor activities for the quarter were available for students who finished early or wanted extensions. Extensions
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	Students were offered the opportunity to explore issues related to gun control. Some students chose to do research and quite a few came in for several lunch-time discussions about current issues related to gun control. Enrichment Students were given the opportunity to play several civics.org games to reinforce their understanding of topics related to the court-system.
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8th Grade Social Studies

3rd QUARTER CURRICULUM	DIFFERENTIATION, ENRICHMENT, EXTENSIONS
Discussion Groups Asia Project Country Research Projects Religions of the Middle East Experiential Lesson on population density	Choice Choice of topics (issues) based on visual and textual components by finding an article and then joining an on-line discussion. Differentiation Student chose topics of interest to research about Asia and then displayed their finding using an Asian motif. During a gallery walk, they took notes on topics they had not researched using their classmate's presentations. For the Country Research Projects, students worked in pairs and chose partners across teams. After choosing a country to research, students presented their findings in different ways (Video, PPT, Poster) and the class did a gallery walk to 'visit' each country one day. Flexible Grouping Jigsaw Activity-Students were placed in groups of three to find information on religions of the Middle East. After completing their work, they went to different

	tables as the 'expert' in one religion and gathered information on the other religions from their peers. Experiential Lesson In an experiential lesson, students used classroom furniture to determine the population density of different nations. Working cooperatively, they reached a solution that provided the best result for the whole group, not just individual students. Then they mapped the findings using an image of the major Japanese islands.	
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Science 3rd Quarter

6th Grade Science

3 rd QUARTER CURRICULUM	DIFFERENTIATION, ENRICHMENT, EXTENSIONS
Tracking a Code Red Day Hours of Daylight Solar Angle Exploration EarthMallow Seasons 3D Gizmo Fan Lab Weather Tools	Application of Experimental Design Practices Students conducted investigations to apply their knowledge of identifying variables and constants in experiments, writing their own hypotheses, and analyzing/graphing sets of data. Choice Students were encouraged to choose online simulations through ExploreLearning.com to help reinforce and extend science content.

Reading Weather Instruments Weather Data Collection Clouds Exploration Weather Maps Gizmo Water Water Everywhere Water Olympics Water Gizmo	Flexible grouping Groups arranged by interest and/or ability were used throughout the quarter during labs, hands-on activities, and review sessions. Anchor Activities Students who finished with daily work were offered a variety of extension and enrichment activities.
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7th Grade Science

3rd QUARTER CURRICULUM	DIFFERENTIATION, ENRICHMENT, EXTENSIONS
DNA Structure Models DNA Replication Process Modeling Protein Synthesis Process Modeling Cell Cycle Modeling and iMovies Meiosis Learning Modeling and iMovies Mendelian Genetics Lab Simulation Genetic Punnet Squares Genetic Engineering Debates and Persuasive Writing	Differentiation Many activities are provided at a variety of levels for students to access the content. Choice For cell reproduction students were provided a variety of choices, and they created a learning path through varying degrees of difficulty to gain more knowledge about the process, and to synthesize the process. For the Genetic Engineering Debates students had the choice to participate in a fast-pace ThrashOut Debate, or a more guided Socratic Seminar. Students also had choices on which genetic engineering topics they became experts. Leveled Reading

	For the Genetic Engineering debates, students were provided a large variety of readings at many different levels. Self-Regulation Learning Students were able to create their learning paths to engage with content and build their knowledge of each topic. This provides extensions for students to synthesize and apply content knowledge to real-world applications.
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8th Grade Science

3rd QUARTER CURRICULUM	DIFFERENTIATION, ENRICHMENT, EXTENSIONS
Newton's Three Laws of Motion Force Defining force Real-life examples of force Calculating net force Motion Defining motion Real-life examples of motion Calculating speed, velocity, and acceleration Mass vs. Weight	Choice: Choice of how to create their own review of a unit in the form of a mind maps. Choice of different reading analysis styles of a mass vs. weight reading. Flexible grouping: Students were exposed to flexible seating and grouping. Students were responsible for choosing both a seat and group in which they would be able to learn most effectively. Differentiation: Different reading levels of a mass vs. weight reading Newton's Stations/Advanced Lab where students had to apply Newton's Three Laws of Motion to design and build a car to protect an egg in a crash Dot Car Lab students solved for acceleration Higher level calculations of force, speed, velocity, and acceleration Higher level thinking of universal gravitational concept Gizmo and PHET Colorado virtual labs, students completed the extension part of the activities Flexible Grouping

	Groups arranged by interest and/or ability were used throughout the quarter during discussions, labs, and question formatting technique (QFT).
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Math 3rd Quarter

6 th Grade Math

3rd QUARTER CURRICULUM	DIFFERENTIATION, ENRICHMENT, EXTENSIONS
Probability Integers Equations	Activities/Extensions- Digital breakouts created involving probability and integers for students to explore challenging problems and creative problem solving. Algebra Tiles hands-on and online. Real-world problems and scenarios for students to calculate tax, tip, and discount. One-step equations are extended into two-step equations. Application of integer and equation understanding is extended to word problems. Desmos activities reinforce equation skills offering a wide range of ability levels. Gizmos online interactive problem sets for integers and absolute value. Differentiation- Flexible grouping by student choice and problem sets ranging from easy to challenging in scope to work on collaboratively. Hands-on problems are scaffolded to offer different entry points for varying abilities moving from concrete to semi-concrete to abstract. Gizmos- Problem solving depth and difficulty increases as the student progresses through the activity.

	Choice- Challenge problems available by student request. Additional practice for quizzes and tests available. Problem of the week- student can earn extra credit
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7th Grade Math

3 rd QUARTER CURRICULUM	DIFFERENTIATION, ENRICHMENT, EXTENSIONS
Sequences (arith/geo)	
Functions	Sage and Scribe -Technique where one student will orally dictate (sage) to another student to write down (scribe). Very useful when there are multiple ways to solve problems
Relations	
Graphing Functions	Gizmos/Calculators/Dreambox -Gizmos provides math simulations--Useful in predicting changes
Developing Function Rules	
Slope as a ratio	Calculators used to check work
Proportion problems (shadow/real world)	Dreambox is used to supplement lessons in class
Consumer Math (Sales Tax/Tip/Discount)	
Identifying Quadrilaterals	Various interactive websites- Learnzillion/IXL/Kahoot/EdPuzzle/DeltaMath/PBS Media----
Surface Area/Volume of cylinders/rectangular prisms and real world word problems	Stations- Teacher created stations where students can complete leveled problems and receive guided practice/instruction Independent Choice problems- As an example-- students have to complete 10 questions for homework. Two must come from "X" category, four must come from "Y" category and four must come from "Z" category

Intensified Algebra

3 rd QUARTER CURRICULUM	DIFFERENTIATION, ENRICHMENT, EXTENSIONS
Systems of inequalities	Sage and Scribe —Technique where one student will orally dictate (sage) to another student to write down (scribe). Very useful when there are multiple ways to solve problems
Compound Inequalities	
Graphing Inequalities	
Exponent Properties	Small Group —Create small groups within a larger group to either enrich or provide support.
Scientific Notation (calculating with)	
Exponential Growth/Decay	Independent Stations/Stations —Teacher created stations where students can complete leveled problems and receive guided practice/instruction As an example-- students have to complete 10 questions for homework. Two must come from "X" category, four must come from "Y" category and four must come from "Z" category
Multiplying Polynomials	
Factoring Polynomials when $a=1$ and $a>1$	
Solving Quadratic equations through "Completing the Square/Factoring/Graphing/Sq Roots/Quadratic Formula"	Graphing Calculator —Used to visualize/verify solutions in many aspects.
Graphing Quadratics	Gizmo
	Various interactive websites — Learnzillion/IXL/Kahoot/EdPuzzle/DeltaMath/PBS Media----
	Colored pencils for organization and shading —As an example—some student struggle with "lateral surface area"—shading the base SA vs the Lateral SA can help to visually understand the aspects of the formula.
	Highlighting/underlining key aspects of material —Color coding --for example the FOIL method of multiplying binomials--the F would be Blue, the O would be red, the I would be green and the L would be purple
	Real world applications and scenarios —Providing real world applications and scenarios where any given topic might/could be used to reinforce/extend learning in the classroom

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8th Grade Math

3 rd QUARTER CURRICULUM	DIFFERENTIATION, ENRICHMENT, EXTENSIONS
Percent problems including proportions, sales tax, discount, simple interest and other real world applications. Measuring, naming and classifying angles and finding the relationship between angles (adjacent, vertical, complementary, supplementary) as well as their measure. Transformations including reflection, translation, rotation and dilation Area and perimeter of composite figures and the Pythagorean theorem	Differentiation For each unit studied, students did in class problem sets. The amount expected varied based on student need. Various programs were used to illustrate mathematical concepts. Videos were shown to help students visualize different transformations. Choice and Flexible Grouping Students were given choice and flexible grouping to study and review units. Extensions Were available to students Self-regulation was encouraged and discussed

Algebra

3 rd QUARTER CURRICULUM	DIFFERENTIATION, ENRICHMENT, EXTENSIONS
8th Grade Algebra Graphing Inequalities and Systems of Inequalities Simplifying Exponential Expressions Polynomial Operations Factoring Graphing Quadratics	8th Grade Algebra Anchor Activities/Extensions: Students are given the opportunity to work on challenge problems whenever they are finished with the classwork. Students also work on DreamBox if they have additional time in class.

)	Differentiation: Students complete practice problems on a program called Deltamath which allows them to see immediate feedback. They also complete a different amount of problems depending on how many they are answering correctly.
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Intensified Geometry

3rd QUARTER CURRICULUM Area of Sector/ Arc Length Equation of a Circle Parallelograms Trigonometry	DIFFERENTIATION, ENRICHMENT, EXTENSIONS Differentiation Students were given IXL accounts to solve for the area of the sector and arc length in circles. Problems varied based off student achievement without sacrificing rigor. Choice Intensified Geometry students were given investigation activities in which they could derive their own conjectures about quadrilaterals. Extension Students were given an opportunity to explore the equation of a circle on Gizmos. As well, students were given real world problems that relate to area and equations of a circle.
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