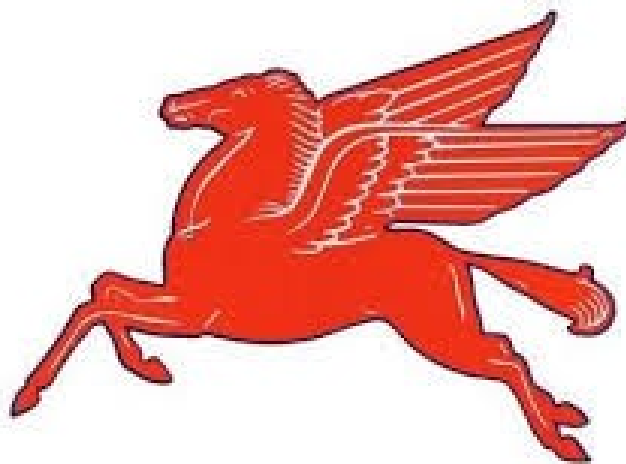


Curriculum Management System

PAULSBORO PUBLIC SCHOOLS



Gifted & Talented Grade 3

UPDATED 2020-2021

For adoption by all regular education programs as specified and for adoption or adaptation by all Special Education Programs in accordance with Board of Education Policy.

Board Approved: October 2021

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Paulsboro Public Schools

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Mr. Matthew J. Browne, Principal, grades 3-6

Mr. Paul Morina, Principal, grades 7-12

Paulsboro Public Schools

Mission Statement

The mission of the Paulsboro School District is to work with students, parents, educators, and community to develop excellence in education while preparing each student to be viable and productive citizens in society. Our goal is to develop the unique potential of the whole student by creating a challenging and diverse learning climate that prepares students for the 21st Century and is rich in tradition and pride.

PACING CHART (2020-2021)

TOPIC	# OF DAYS	DATES	COMMENTS
Robotics	<i>10-20</i>	<i>vary</i>	focus on real world connection
building			sub-topic option
programming			sub-topic option
career exploration			sub-topic option
Engineering	10-20	vary	focus on real world connection
renewable energy			sub-topic option
air & water quality			sub-topic option
construction design			sub-topic option
career exploration			sub-topic option
Science	10-20	vary	focus on real world connection
biomedical			sub-topic option
forensic			sub-topic option
climate change			sub-topic option
career exploration			sub-topic option
Technology	10-20	vary	focus on real world connection
virtual & augmented reality			sub-topic option
circuits & electronics			sub-topic option
Animation & video game design			sub-topic option
digital textiles			sub-topic option
career exploration			sub-topic option

Dates and number of days will vary based on resources available and school schedules.

DEFINITIONS

NJ Student Learning Standards – Clear and specific benchmarks for students’ achievement in various content areas. The standards ensure that each child receives a “thorough and efficient education”.

21st Century Life and Careers Standards – These skills that are comprised of the “12 Career Ready Practices” and Standards 9.1 through 9.4. The organization of these standards intends to enable students to make informed decisions that prepare them to engage as active citizens in global society and be prepared for the opportunities of the 21st century workplace.

ELA Companion Standards – Consists of standards for reading and writing in History, Social Studies, Science and Technical subjects. ELA curricula

Gifted and Talented Learners – Students with high-ability who may need more depth and complexity in instruction.

Special Education Learners – Students in need of supports and interventions to improve student achievement

English Language Learners – Students with a native language other than English or who are at varying degrees of English language proficiency.

QUARTER 1 –

Big Idea: Robotics

Topics: Build/Program/ Career Exploration

<p>Standards: NJ Student Learning Standards: NGSS 3-5-ETS1-1. Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. 3-5-ETS1-2. Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. 3-5-ETS1-3. Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved. 21st Century Life and Careers: CRP6. Demonstrate creativity and innovation</p>	GOAL	
	<p>SWBAT design and build robots. SWBAT program/ code robots to perform tasks/functions. SWBAT explore careers in the field of robotics</p>	
	Essential Questions	Assessments
	<ol style="list-style-type: none"> 1. How will you design and build a robot? 2. What task/ function can the robots perform? 3. What are careers in robotics? 	<p><i>(Include benchmark assessments where possible – This could be a link to the assessment, a page reference in a book to the assessment or an attachment following this document referencing these standards and this goal.)</i></p> <p>Formative assessments include: interactive response, observation, active participation in a team environment, and/or data collection of investigation.</p>
	Enduring Understanding	Resources

<p>CRP8. Utilize critical thinking to make sense of problems and persevere in solving them</p> <p>CRP10. Plan education and career paths aligned to personal goals</p> <p>CRP11. Use technology to enhance productivity</p> <p>CRP12. Work productively in teams while using cultural global competence</p> <p>Technology Standards:</p> <p>8.2.5.C.4 Collaborate and brainstorm with peers to solve a problem evaluating all solutions to provide the best results with supporting sketches or models.</p> <p>ELA Companion Standards:</p> <p>NJSLSA.SL4. Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience</p> <p>NJSLSA.SL5. Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations</p> <p>MODIFICATIONS:</p> <p>Gifted and Talented Learners: student centered, compact curriculum, flexible pacing, assume ownership of own learning</p> <p>Special Education Learners: written list of instructions, extended time, alternate projects, flexible use of materials</p>	<p>Design & Building Robots from both models and imagination</p> <p>Program/ build robots to perform various tasks/ functions</p> <p>Careers in robotics</p>	<p>Ipads</p> <p>Wonder Workshop robots</p> <p>UB Tech robot kits</p> <p>LEGO Mindstorm robots</p>
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<p>English Language Learners: extended time, teacher modeling, simplified instructions, frequent breaks</p>		
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QUARTER 2 –
Big Idea: Engineering
Topics: Renewable Energy/ Air & Water Quality/ Construction Design/
Career Exploration

<p>Standards: NJ Student Learning Standards: NGSS 3-ESS2-2. Obtain and combine information to describe climates in different regions of the world. 3-ESS3-1. Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard 3-LS4-4. Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change 21st Century Life and Careers: CRP1. Act as a responsible and contributing citizen and employee CRP5. Consider the environmental, social and economic impacts of decisions CRP7. Employ valid and reliable research strategies Technology Standards: 8.2.5.D.1 Identify and collect information about a problem that can be solved by technology, generate ideas to solve the problem, and identify constraints and trade-offs to be considered. 8.2.5.D.2 Evaluate and test alternative solutions to a problem using the constraints and trade-offs identified in the</p>	GOAL	
	<p>SWBAT research & design sources of renewable energy SWBAT research & design measures of air & water quality SWBAT research & create construction design SWBAT explore careers in the field of engineering</p>	
	Essential Questions	Assessments
	<ol style="list-style-type: none"> 1. What is renewable energy? 2. How is air & water quality measured? 3. What is construction design? 4. What are careers in engineering? 	<p><i>(Include benchmark assessments where possible – This could be a link to the assessment, a page reference in a book to the assessment or an attachment following this document referencing these standards and this goal.)</i></p> <p>Formative assessments include: interactive response, observation, active participation in a team environment, and/or data collection of investigation.</p>
	Enduring Understanding	Resources
<p>Engineering Design Process Careers in Engineering</p>	<p>Renewable Energy Resources Air & Water Resources Construction Design Resources</p>	

design process to evaluate potential solutions

ELA Companion Standards:

NJSLSA.SL4. Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience

NJSLSA.SL5. Make strategic use of digital media and visual displays of data to express information and enhance understanding of presentations

MODIFICATIONS:

Gifted and Talented Learners: student centered, compact curriculum, flexible pacing, assume ownership of own learning

Special Education Learners: written list of instructions, extended time, alternate projects, flexible use of materials

English Language Learners: extended time, teacher modeling, simplified instructions, frequent breaks

QUARTER 3 –

Big Idea: Science

Topic: Biomedical/ Forensic/ Climate Change/ Career Exploration

<p>Standards: NJ Student Learning Standards: NGSS 3-LS1-1. Develop models to describe that organisms have unique and diverse life cycles but all have in common birth, growth, reproduction, and death. 3-LS4-4. Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change 3-ESS3-1. Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard 21st Century Life and Careers: CRP1. Act as a responsible and contributing citizen and employee. CRP5. Consider the environmental, social and economic impacts of decisions. CRP7. Employ valid and reliable research strategies. CRP8. Utilize critical thinking to make sense of problems and persevere in solving them. Technology Standards: 8.2.5.A.4 Compare and contrast how technologies have changed over time due to human needs and economic, political and/or cultural influences.</p>	GOAL	
	<p>SWBAT research & explore biomedical science. SWBAT research & explore forensic science. SWBAT research & explore climate change. SWBAT explore careers in science.</p>	
	Essential Questions	Assessments
	<ol style="list-style-type: none"> 1. What is biomedical science? 2. What is forensic science? 3. What is climate change? 4. What are careers in science? 	<p><i>(Include benchmark assessments where possible – This could be a link to the assessment, a page reference in a book to the assessment or an attachment following this document referencing these standards and this goal.)</i></p> <p>Formative assessments include: interactive response, observation, active participation in a team environment, and/or data collection of investigation.</p>
Enduring Understanding		Resources
<p>Aspects of biomedical science Aspects of forensic science Solutions to climate change Careers in Science</p>		<p>Biomedical Resources Forensic Resources Climate Change Resources</p>

8.2.5.A.5 Identify how improvement in the understanding of materials science impacts technologies.

8.2.8.A.4 Redesign an existing product that impacts the environment to lessen its impact(s) on the environment.

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QUARTER 4 –

Big Idea: Technology

Topic: Virtual & Augmented Reality/ Electronics/ Video Game Design/ Digital Textiles/ Career Exploration

<p>Standards:</p> <p>NJ Student Learning Standards: NGSS</p> <p>3-5-ETS1-1. Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost. 3-5-ETS1-2. Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and constraints of the problem. 3-5-ETS1-3. Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.</p> <p>21st Century Life and Careers:</p> <p>CRP2. Apply appropriate academic and technical skills. CRP6. Demonstrate creativity and innovation. CRP10. Plan education and career paths aligned to personal goals. CRP11. Use technology to enhance productivity. CRP12. Work productively in teams while using cultural global competence.</p> <p>Technology Standards:</p> <p>8.2.5.C.4 Collaborate and brainstorm with peers to solve a problem evaluating all</p>	GOAL	
	<p>SWBAT explore virtual & augmented reality.</p> <p>SWBAT explore circuits & electronics.</p> <p>SWBAT explore animation & video game design.</p> <p>SWBAT explore digital textiles.</p> <p>SWBAT explore careers in technology.</p>	
	Essential Questions	Assessments
	<ol style="list-style-type: none"> 1. What is virtual & augmented reality? 2. What are circuits & electronics? 3. What is animation & video game design? 4. What are digital textiles? 5. What are careers in technology? 	<p><i>(Include benchmark assessments where possible – This could be a link to the assessment, a page reference in a book to the assessment or an attachment following this document referencing these standards and this goal.)</i></p> <p>Formative assessments include: interactive response, observation, active participation in a team environment, and/or data collection of investigation</p>
	Enduring Understanding	Resources
<p>Aspects of virtual & augmented reality</p> <p>Aspects of circuits & electronics</p> <p>Aspects of animation & video game design</p> <p>Aspects of digital textiles</p> <p>Careers in technology</p>	<p>Virtual Reality Resources</p> <p>Augmented Reality Resources</p> <p>Circuit Resources</p> <p>Electronic Resources</p> <p>Animation Resources</p> <p>Video Game Design Resources</p> <p>Digital Textile Resources</p>	

solutions to provide the best results with supporting sketches or models.

8.2.5.C.1 Collaborate with peers to illustrate components of a designed system

8.2.5.C.7 Work with peers to redesign an existing product for a different purpose

ELA Companion Standards:

NJSLSA.SL4. Present information, findings, and supporting evidence such that listeners can follow the line of reasoning and the organization, development, and style are appropriate to task, purpose, and audience

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