

**DOWNINGTOWN AREA SCHOOL DISTRICT**

**Middle School (7<sup>th</sup> and 8<sup>th</sup> grade)  
Academic Program  
2022-2023**

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Dear Parents and Guardians,

We welcome you to our Middle School as the parent or guardian of an incoming student. The middle school years are an important transition period when adolescents mature socially, emotionally, physically and academically. During these critical years, we urge your active participation and partnership with our staff of teachers, administrators and support personnel to ensure a productive, rewarding, and engaging educational experience for your student.

Downingtown Area School District organizes the middle school student population into smaller academic teams. Teams of teachers representing the core subject areas are assigned to a common group of students. Those teachers share common planning time for the purpose of supporting their students. These smaller learning communities are focused on developmentally appropriate experiences for young adolescents. Educational programming includes learning that is anchored in standards and interdisciplinary instruction, while providing opportunities for exploration and discovery. Middle school programs also pay close attention to the unique physical, social and emotional needs of young adolescents.

As students enrolled in the 7th and 8th grades, the formal structures and supports are diminished so that students become more independent learners. While offering a core academic curriculum in English, Math, Science, Social Studies, Reading and World Language, the middle school addresses the wide spectrum of students' needs through instructional strategies and designs. The encore program offers students a wide array of opportunities to explore Health, Physical Education, Music, Art, Technology Education and Family and Consumer Sciences. A host of additional support services are offered, including gifted and learning support.

Best wishes to you and your student as you experience the middle school years. Adolescents continue to need guidance, nurturing and healthy relationships with adults in order to successfully transition from childhood to adulthood. You play a very important role as the school's partner in supporting them through these transitional years.

Sincerely,

The Administrative Teams at Downingtown and Lionville Middle Schools

## **MIDDLE SCHOOL MISSION STATEMENT**

Together, the students, staff, families, and community of the Downingtown Area School District are committed to developing a middle level program that balances the academic, emotional, social, and physical potential of each student in a safe environment that encourages active life-long learning for a 21<sup>st</sup> century global “Good Neighbor” community.

### ***Middle Level Core Values***

#### **We believe that:**

- ❖ Learning is a multi-faceted process where the school community embraces the unique qualities of each student by nurturing physical, social, emotional, and intellectual growth.
- ❖ Each student possesses personal value supported and nurtured by an empowering, physically, and emotionally responsive learning environment.
- ❖ Each student will reach his/her potential through actively engaging in purposeful curricula enhanced by technology with a wide variety of interest-focused course offerings.
- ❖ Self-driven student learning will foster social and academic development. Students will accept responsibility, understand consequences, and commit to his/her personal best.
- ❖ Each student will develop into a confident and ethical citizen who learns in a school environment that is inviting, safe, inclusive, and supportive of all.
- ❖ Each student, staff member, and family must openly communicate and interact in order to develop productive, contributing citizens within our school, local, global, and digital communities.
- ❖ Each student must be prepared for the 21<sup>st</sup> century global society in which he/she becomes a critical thinker and life-long learner.

*DASD Middle Level Steering Committee, June, 2007  
Updated, February, 2015*

## ADMINISTRATORS- SCHOOL COUNSELORS- CURRICULUM LEADERS

### Administrators

Downingtown Middle School	
Dr. Nicholas Indeglio	Principal
Ms. Ildiko Brown	Assistant Principal
Mr. Stephen Jenkins	Assistant Principal

Lionville Middle School	
Dr. Jonathan Ross	Principal
Ms. Janice Lear	Assistant Principal
Mr. Andrew Kirby	Assistant Principal

### School Counselors

Downingtown Middle School	
Ms. Sally Witmer	School Counselor
Ms. Nicole Lipkin	School Counselor
Mr. Todd Shirley	School Counselor

Lionville Middle School	
Ms. Rosemarie Rullo	School Counselor
Ms. Katrina Crane	School Counselor
Mr. Robert Wells	School Counselor

### Curriculum Leaders

Art	Karen Guidas-Sidorick
Business Education	Ashley Rutchauskas
English Language Arts	Angela Coates
ESL	Monica Luna
Family and Consumer Sciences	Lauren Taylor
Guidance	Mary Wallin
Health and Physical Education	Greta Neff
Information Resources-Library	Kelly Sibley
Mathematics	Katie Armstrong
Music	Robert Carpeny
Nurses	Jennifer Mikulich
Reading	Theresa Resto
School Counseling	Mary Wallin
Science	George Tucker
Social Studies	Justin Staub
Technology Education	Jocelyn Long
World Languages	Susan Tancredi

## GRADING SYSTEM

Marking period letter grades are based upon a variety of in-school student performance measures throughout the marking period. Assessments are designed to evaluate students' course content knowledge, skill and concept acquisition as prescribed by PA or national academic standards. Student learning behaviors are reported separately in the learning behaviors portion of the report card.

**A** Demonstrates superior academic achievement  
Demonstrates in-depth understanding of course standards  
Applies knowledge and skills independently  
Analyzes and evaluates ideas or concepts  
Meets expectations of skills, concepts, or knowledge at a high level

**B** Demonstrates strong academic achievement  
Demonstrates solid understanding of course standards  
Applies knowledge and skills  
Analyzes and evaluates ideas or concepts in guided situations  
Meets expectations of skills, concepts, or knowledge

**C** Demonstrates adequate achievement  
Demonstrates competency of course standards  
Applies knowledge and skills with guidance  
Occasionally analyzes and evaluates ideas or concepts in guided situations  
Meets most expectations of skills, concepts, or knowledge

**D** Demonstrates minimal academic achievement  
Demonstrates partial understanding of course standards  
Struggles to apply knowledge and skills with guidance  
Occasionally identifies ideas or concepts  
Meets some expectations of skills, concepts, or knowledge

**F** Demonstrates inadequate academic achievement  
Demonstrates little understanding of course standards  
Unable to apply knowledge and skills with guidance  
Rarely identifies ideas or concepts  
Does not meet expectations of skills, concepts or knowledge

**I** = Incomplete    **M** = Medical    **O** = Outstanding    **S** = Satisfactory    **U** = Unsatisfactory

Learning Behaviors are marked on the report card as follows:

**S** = Strength    **I** = Shows Improvement    **N** = Needs Improvement

1. Organizes materials
2. Uses time efficiently
3. Submits work on time
4. Demonstrates independence
5. Prepares for class
6. Work is legible
7. Work shows creativity
8. Demonstrates effort
9. Demonstrates proper techniques
10. Cooperates with others
11. Participates in class
12. Makes positive contributions to learning environment
13. Demonstrates appropriate behaviors
14. Respects others

## SCHOOL COUNSELING PROGRAM

**MESSAGE FOR STUDENTS:** *The school counselors are ready to assist you with any of your concerns by helping you formulate a plan or point you in the correct direction. If you would like to talk to your counselor, just stop in to the Counseling Office to schedule an appointment through the counseling secretary.*

The primary function of our School Counselors is to assist students in optimizing their learning experiences at the middle school. School counselors are charged to address the academic, social/emotional and career exploration needs. More specifically, the counselors assist students and their parents/guardians with many aspects of education. Some important duties of the middle school counselors include: individual and group counseling to students, communication between home and school, new student registration, course selection, career education and planning, and transition planning/ programming for the outgoing 8<sup>th</sup> graders.

Students are assigned guidance counselors based on their last name at Lionville Middle School and by grade at Downingtown Middle School. Parents are welcome to contact the counselor to discuss any concerns.

### CAREER EDUCATION:

In middle school, students have the opportunity to continue to explore possible career interests and options. The DASD career curriculum is delivered to every middle school student every year. The district's career curriculum aligns with the Pennsylvania Department of Education Career Education Standards. Every student may access the web-based career exploration system, Naviance. Naviance enables each student to explore career interests and aptitudes as well as save college and career information to individual profiles. Students' individual accounts are accessible from home and school.

## HONOR ROLL

**Distinguished** = 'A's' in all courses

**High** = 'A's' in at least two core courses and more than half of all courses taken. 'B's' in all remaining courses.

**Regular** = 'A's' in two courses. A maximum of one 'C' and all rest 'B's'.

## SCHEDULING

The Middle School scheduling process begins during the third marking period. Students will be provided with a course selection sheet and will complete the elective course selection online. Core subject teachers in English will make their professional recommendations as to which course a student should take. All students and guardians receive information regarding scheduling from their student's school counselor or building administration. No changes to students' schedules will be made after the first two cycles of school (12 school days). We do realize that there may be changes which will be IEP/GIEP driven and those changes will be addressed on an individual basis.

## SPECIAL SERVICES AND PROGRAMS

Adapted Physical Education	Career Counseling	Counseling and Guidance
English as a Second Language	Gifted Education	Hearing Services
Library	Psychological Services	Special Education Services
Speech Services	Student Assistance Services (SAS) and Prevention Specialist	Vision Services

*Additional information can be obtained through the School Counselors.*

## ENGLISH LANGUAGE LEARNERS (ELL)

ELL classes are for speakers of other languages who qualify based on an English language proficiency screening test. During class, the ELL teacher provides students with structured opportunities to learn and practice all the domains of second language acquisition: listening, speaking, reading and writing. The students develop content-based academic language as a prerequisite for success in academic programs as well as develop their knowledge of English so they may successfully participate in school, community, and social activities.

## SUMMER SCHOOL

The Middle School Summer School Program is open to students residing in the Downingtown Area School District who have completed 7<sup>th</sup> or 8<sup>th</sup> grade and is designed for students who have demonstrated the need to strengthen academic skills. Students who attend will have the opportunity to improve their study habits, and review fundamental concepts for greater understanding in reading, writing and math. The program incorporates mathematics and language arts with specific study skills such as outlining, note taking, vocabulary, content area reading strategies, along with the higher level thinking skills of analysis and synthesis. Successfully completing Summer School may enable promotion for some students. Information with regard to retention/failures is available through the Counseling Office after the regular school year is completed in June. Dates, fees and other details are available from the Middle School Counseling Department or Main Office.

## DOWNINGTOWN CYBER ACADEMY

### **Program Overview:**

The Downingtown Cyber Academy (DCA) allows students in grades K-12 to take online courses full-time or part-time. The DASD online curriculum includes asynchronous and synchronous work using the students' 1:1 devices. The DCA courses are in Schoology and are taught by DASD teachers. Students in the DCA are still considered students in their home building and can participate in all clubs, sports, and after-school activities.

### **Costs:**

There is no cost to attend the Cyber Academy; however, part-time students will be required to provide their own transportation to middle school for any traditional classes they wish to take. Morning and afternoon transportation is available for students whose schedules coincide with regular AM and PM bus routes.

### **Course Offerings:**

The entire Downingtown Cyber Academy selection of courses can be found online at [www.dasd.org/cyber](http://www.dasd.org/cyber). Families must register for the Downingtown Cyber Academy each year.



## PROGRAM OF STUDY – 7<sup>TH</sup> GRADE

Core Subjects	Time Cycle
<b>English Literature</b>	Daily, all year
<b>English Writing</b>	Daily, all year
<b>Science</b>	Daily, all year
<b>U.S. History</b>	Daily, all year
<b>Mathematics</b>	Daily, all year
<b>Reading (if applicable)</b> - <i>takes the place of core subject; English-Literature, U.S. History, or other based on individual student need. Students are placed in Reading courses based on academic need(s). All reading courses meet daily. See information under READING section in this Course of Studies for the varied classes. If/When a student exits the Reading program, they will resume taking the missing core subject.</i>	Daily, all year

### Selected Encore Courses- cycle based

Family & Consumer Sciences	Art Education- 7th Grade Art Art Education- iArt Art Education- 3-Dimensional Art
Technology Education- Science of Technology Technology Education-Engineering and the Environment	Physical Education Health
World Language Expeditions- Spanish, French, German	General Music Chorus Vocal Ensemble (performance tryout) Band Strings
Special Education Program (IEP required)	Math Extensions (criteria based and/or teacher recommendation)

## PROGRAM OF STUDY – 8<sup>TH</sup> GRADE

Core Subjects	Time Cycle
<b>English</b>	Daily, all year
<b>Science</b>	Daily, all year
<b>U.S. History</b>	Daily, all year
<b>Mathematics</b>	Daily, all year
<b>World Language</b> ( <i>Spanish, French, German</i> )	Daily, all year
<p><b>Reading (if applicable)</b> - <i>takes the place of world language and/or a core subject; English-Literature or U.S History or other based on student individual need.</i></p> <p><i>Students are placed in Reading courses based on academic need(s). All reading courses meet daily. See information under READING section in this Course of Studies for the varied classes. If/When a student exits the Reading program, they will resume taking the missing core subject.</i></p>	Daily, all year
<p><i>Students in need of Reading will take a Reading Course every day in lieu of a World Language. If/When a student exits the Reading program, they will begin a world language.</i></p>	

<b>Encore Courses- cycle based</b>	
Technology Education- Automation and Robotics Technology Education-Design and Modeling	Physical Education 8 <sup>th</sup> grade Health
Family & Consumer Sciences Art Education- 8 <sup>th</sup> grade Art Art Education- iArt Art Education- 3-Dimensional Art	General Music Chorus Vocal Ensemble Wind Ensemble Band Strings
Math Extensions (criteria based and/or teacher recommendation)	Special Education Program (IEP required)

## ART

The Middle School **General Art** curriculum provides sequential growth and development through a combination of Discipline Based Art Education (DBAE) and the concept of Teaching Artistic Behaviors (TAB). In this course, students will experience a little bit of everything! Focus will be on producing artwork, and interpreting that artwork for meaning, while actively engaging in creative problem solving and self-expression using a variety of concepts and materials including but not limited to the Principals of Composition, Painting, Clay, 3-Dimensional Sculpture and Craft, Digital Design, Self-Portraiture, Landscape, Figure Drawing, Color Theory, and much more. Art history is incorporated throughout, encouraging a deeper understanding of the arts and its connections to culture, history and society, and students are provided the opportunity to use art to explore their own thoughts and opinions, and that of the world around them. The curriculum is aligned to the PA Academic Standards for Arts and Humanities. Authentic assessment is used as an evaluative tool and students are provided opportunities to reflect upon and analyze artwork. The critique and portfolio processes create an atmosphere that allows all students to incorporate both problem solving and decision making throughout their work, while drawing on 21st Century learning concepts. The course content will culminate at our annual Art Exhibit in the spring, where students will have the opportunity to share their creative endeavors with the school and the community. Classes are offered both years. In 7th and 8th grade they meet twice in each six-day cycle for the school year (60 days total).

### **3-D Art**

The 3-Dimensional design class provides students with the opportunity to work with their HANDS!! This class takes the concepts of 2-D design, and turns them into 3-Dimensionally manipulated sculpture and form. Students will experience the 3-Dimensional world with design units devoted to Personal Tribute, Collaboration, Cultural Connection, Environmentalism, Social Commentary, and much more. Students will have the unique opportunity to build works of varying sizes using a variety of materials which include, but are not limited to Clay, Plaster, Fabric, Wire, Wood, Recycled and Found Object, and Metal. They will connect the world around them to the expression within them as they experience sculptural form with both decorative and functional purposes. The course content will culminate at our annual Art Exhibit in the spring, where students will have the opportunity to share their creative endeavors with the school and the community. Classes are offered both years. In 7th and 8th grade they meet twice in each six day cycle for the school year (60 days total).

### **i-Art**

The i-Art class takes a 21st century approach to working creatively! This course allows students the opportunity to use 1:1 technology as a tool for creating their own inspired pieces. Course content will include the use of the i-pad, as well as a MacBook Pro laptop computers to delve into aspects of the Adobe Creative Cloud Suite, including both the Adobe Photoshop and the Adobe Illustrator programs. Students will understand the historical journey from the handmade to the mass produced as they explore the connections between the invention of the Guttenberg printing press, and their own duplicated and mass produced 21st Century creations. Students will incorporate hand drawn and digitally designed imagery to create unique works of art that focus on both the Commercial aspect of design as well as their own Self-Expression. The course content will culminate at our annual Art Exhibit in the spring, where students will have the opportunity to share their creative endeavors with the school and the community. Classes are offered both years. In 7th and 8th grade they meet twice in each six-day cycle for the school year (60 days total).

## ENGLISH

### **7th grade:**

The 7th grade English program (Literature and Writing) prepares and challenges students to read, write, listen and speak effectively. Seventh graders enroll in this comprehensive program that emphasizes higher order thinking built upon a foundation of knowledge, skills, and strategies.

A variety of reading strategies help 7th grade students become better readers, listeners, and critical thinkers. Literature study includes both fiction, such as short stories, poetry, drama, and oral traditions as well as nonfiction pieces encompassing essays, autobiographies and technical readings. As students continue to develop as readers, they will identify and interpret differences in formal and informal languages used in speech, writing and literature. In addition to understanding, analyzing, interpreting and evaluating text, students develop critical thinking skills which are constructed through the intentional interaction between the reader and the text. Students are exposed to a full spectrum of reading genres which are intended to support and cultivate life-long reading.

In 7th Grade ELA Writing, students engage in a variety of opportunities for developing writers. The modes of writing (narrative, informational and argumentative) are utilized within the curriculum as students write for a variety of purposes. In this course, students will further develop their knowledge of the five characteristics of effective writing (focus, content, organization, style, and conventions). Students will practice techniques to help them write with a clear focus, controlled organization and ultimately develop content appropriate for their specific topic. Specifically, this method puts emphasis on a better understanding of style by using a variety of sentence structures and descriptive word choices (i.e., adjectives, nouns, verbs). Finally, the use of media and technology is integral in students' self-directed learning, group collaborations and research, as well as a vital tool used by teachers to supplement the curriculum.

Student competency is demonstrated in the PSSA ELA Assessment, district benchmark assessments, and teacher-created formative and summative evaluations that are student driven. The course prepares students to construct meaning in all curricular areas and, ultimately, to fully participate as lifelong learners and informed, productive members of society.

### **8<sup>th</sup> Grade:**

The 8<sup>th</sup> grade English program prepares and challenges students to read, write, listen and speak effectively. It is an integrated, comprehensive program that emphasizes higher order thinking built upon a foundation of knowledge, skills, and strategies.

Student competency is demonstrated in the PSSA Reading Assessments, district benchmark assessments, and teacher-created formative and summative evaluations that are student driven. The goal of the program is to develop and challenge students to read, write, listen and speak effectively. The English program prepares students to construct meaning in all curricular areas and, ultimately, to participate fully as lifelong learners and informed, productive members of society.

This program employs a wide variety of reading strategies to comprehend, interpret, analyze and evaluate various kinds of texts, allowing students to respond critically in order to demonstrate understanding of important features as well as the historical and cultural context. Students develop critical thinking skills which are constructed through the intentional interaction between the reader and the text. Students are exposed to a full spectrum of reading genre which is intended to support and cultivate life-long reading.

The modes of writing (narrative, informational and persuasive) are utilized within the curriculum as students write for a variety of purposes. In this course, students will grow in their knowledge of the five characteristics of effective writing (focus, content, organization, style, and conventions). Students will learn techniques to help them write with a clear focus, controlled organization and ultimately develop content appropriate for their specific topic. Specifically, this method puts emphasis on a better understanding of style by using a variety of sentence structures and descriptive word choices (i.e., adjectives, nouns, verbs). It also implements features that allow students to convey the tone and voice of their writing through conventions of language that are grade appropriate. As eighth graders develop their writing skills, they will identify and interpret differences in formal and informal language skills used in speech, writing and literature. Finally, the use of media and technology will be integral in students' self-directed learning, group collaborations and research, as well as a vital tool used by teachers to instruct the curriculum.

Student competency is demonstrated in the PSSA ELA Assessment, district benchmark assessments, and teacher-created formative and summative evaluations that are student driven. The course prepares students to construct meaning in all curricular areas and, ultimately, to fully participate as lifelong learners and informed, productive members of society.

## **FAMILY AND CONSUMER SCIENCES (FCS)**

The 7th grade FCS course includes a general introduction to preparing food in the kitchen, kitchen equipment, MyPlate, and super foods. Kitchen experience is gained through classroom lab work and reinforced through a project completed at home. Laundry care, child development, and an introduction to sewing is also included. Students will leave sewing with not only a hand-made project, but also the skills gained from exercising patience and persistence while learning a process which is new to many students.

The 8th grade FCS course includes units on kitchen safety, the basics of how to follow a recipe, food science, and nutrition. Students will collaborate during food labs and projects (both personal and community service-related), and an emphasis is placed on executing recipes accurately, teamwork, and time management. Other units include sewing basics, measuring & cutting fabric, following pattern directions, and hand sewing skills. An introduction to budgeting

and finance is also covered, with an exploration into credit cards, debit cards, earning money from your first job, and consumerism in the 21st Century.

## GIFTED EDUCATION

Gifted education services are provided through specially designed instruction individually tailored to accelerate and/or to enrich a student's regular education courses. A Gifted Individualized Educational Plan (GIEP) is developed for students for whom gifted services are appropriate. Students should address questions about gifted education services with their gifted education teacher.

## HEALTH

All students must take health in 7<sup>th</sup> and 8<sup>th</sup> grades. The General Health curriculum is offered in 7<sup>th</sup> and 8<sup>th</sup> grades. It is important during these formative years that students acquire a knowledge base to make healthy lifestyle decisions. Students will view health as a state of physical, mental, intellectual and social well-being. The course content is designed to meet the following state standards: concepts of health, healthful living and safety and injury prevention. Topics included in the middle school health program are: life skills, systems of the body, human growth and development, chemical substances, alcohol and tobacco, dental hygiene, mental health, diseases, eating disorders, anger management, and self-esteem. It is the intent that the student will acquire or further develop worthwhile habits, knowledge, skills and attitudes that will last a lifetime. Parents have the right to opt their child out of the Human Growth and Development unit by completing and returning the letter sent to each family. Students who opt out will be assigned an alternate health unit of study.

Integrated into the 8<sup>th</sup> grade Health series is First Aid and Athletic Training ~ CPR/AED content. This instructional content provides students with an opportunity to gain life skills that can be applied in everyday life situations. Successful mastery of the instructional material certifies the students in American Red Cross First Aid/CPR/AED.

More specifically, the students will be provided with an introduction to anatomy and physiology, prevention and care for intentional and unintentional injuries, and treatment/care/and prevention of common athletic injuries. Additional content will include Alcohol/Drug Use and Misuse, Signs and Symptoms, and Activating EMS. After taking this class, the students will have the skills necessary to act if an emergency situation presents itself. In order to take this course, **students must have already taken 7th grade Health, Participation will require payment for First Aid/CPR/AED Certification.**

## MATHEMATICS

The middle level mathematics program consists of a variety of course offerings. Students are placed in courses based on their mathematical skills, readiness, performance on PSSA, performance on prior course assessments and successful completion of pre-requisite courses.

### **7<sup>th</sup> Grade Mathematics:**

Students in 7<sup>th</sup> grade will be placed in Grade 7 Math, Grade 8 Math or Algebra I (see chart below). At the end of 7<sup>th</sup> grade, multiple mathematics criteria will be considered by middle school staff for 8<sup>th</sup> grade placement: End of Year 8<sup>th</sup> Grade Assessment, PVAAS Keystone Algebra I projections, Standards of Mathematical Practices ratings, PVAAS 8<sup>th</sup> Grade Math PSSA projections, and the Orleans-Hanna Algebra Prognosis Test are all factors that may be considered based on evolving district criteria. The 7<sup>th</sup> grade math course contains critical fundamental skills that are necessary to be successful in a variety of high school math courses.

**Grade 7 Math** Emphasis on problem solving in the categories of rational numbers, expressions & equations, geometry, ratios & proportional relationships, and probability & statistics. A focus on the Standards of Mathematical Practices encourages students to use the skills of perseverance, abstract & quantitative reasoning, communication, modeling, strategic use of tools, attending to precision, and making use of structure to deepen their understanding of mathematical concepts.

**Grade 8 Math (Course offered to accelerated 7th grade students)** Emphasis on expressions and equations, including problem solving with radicals and integer exponents, analyzing linear relationships between variables using slope, and writing, solving, graphing linear equations. Students will work with rational and irrational numbers, explore functions, apply properties of geometry, and investigate and understand bivariate data. A focus on the

Standards of Mathematical Practices encourages students to use the skills of perseverance, abstract & quantitative reasoning, communication, modeling, strategic use of tools, attending to precision, and making use of structure to deepen their understanding of mathematical concepts.

**Algebra I** is offered to students in 7<sup>th</sup> grade who met performance standards according to the evolving Algebra I readiness rubric. This rubric criterion has included the following (adjustments being made continually throughout the pandemic): End of Year 7<sup>th</sup>/8<sup>th</sup> Grade Assessment, PVAAS Keystone Algebra I projections, Standards of Mathematical Practices rating, PVAAS 7<sup>th</sup> Grade Math PSSA projections, the Orleans-Hanna Algebra Prognosis Test, benchmark performance, and diagnostic performance.

Algebra I topics include real numbers, properties, simplifying terms and expressions using the order of operations, solving equations, inequalities, systems of equations, factoring polynomials, simplifying radical expressions, and graphic linear equations and inequalities.

**8<sup>th</sup> Grade Mathematics:**

**Grade 8 Math** Emphasis on expressions and equations, including problem solving with radicals and integer exponents, analyzing linear relationships between variables using slope, and writing, solving, graphing linear equations. Students will work with rational and irrational numbers, explore functions, apply properties of geometry, and investigate and understand bivariate data. A focus on the Standards of Mathematical Practices encourages students to use the skills of perseverance, abstract & quantitative reasoning, communication, modeling, strategic use of tools, attending to precision, and making use of structure to deepen their understanding of mathematical concepts.

**Algebra I** is also offered to 8<sup>th</sup> graders who have successfully completed Grade 7 and Grade 8 Math. Topics include real numbers, properties, simplifying terms and expressions using the order of operations, solving equations, inequalities, systems of equations, factoring polynomials, simplifying radical expressions, and graphic linear equations and inequalities.

**Algebra II** is available to 8<sup>th</sup> grade students who have successfully completed Algebra I in 7<sup>th</sup> grade. Emphasis is placed on systems of equalities and inequalities, quadratic relations, polynomials, functions, probability and statistics, logarithms and conic sections. (Prerequisite: Algebra I)

**Math Extensions** is a course offered to 7<sup>th</sup> and 8<sup>th</sup> grade students by recommendation only and is considered to be a general education math intervention. Students are enrolled in this course, in addition to their regular mathematics classes, two or four times per six-day cycle. The purpose of this class is to assist students in overcoming academic gaps in mathematics, in addition to providing students with pre-teaching and review opportunities in conjunction with the mathematics instruction offered in Grade 7 Math and Grade 8 Math.

**DASD Middle School to High School Mathematics Progression**

	Progression 3	Progression 2	Progression 1
Grade 6	Grade 6 Acc. Math	Grade 6 Math	Grade 6 Math
Grade 7	Grade 8 Math or Algebra I *Must achieve 80% or higher on Grade 8 content assessment	Grade 7 or Grade 8 Math *Must achieve 80% or higher on Grade 7 content assessment	Grade 7 Math
Grade 8	Algebra II	Algebra I	Grade 8 Math
Grade 9	Geometry	Algebra II	Algebra I
Grade 10	Pre-Calculus	Geometry	Algebra II
Grade 11	AP Calculus AB	Pre-Calculus	Geometry
Grade 12	AP Calculus BC AP Statistics	Calculus AP Calculus AB AP Statistics Probability and Statistics	Pre-Calculus Probability and Statistics AP Statistics

## MUSIC

A variety of offerings are provided for the wide range of student interests and talents. Students may choose from one of the following music courses:

**General Music** is offered in 7<sup>th</sup> and 8<sup>th</sup> grades. This class meets twice per cycle. General Music focuses on giving students experiences in music through the use of technology: listening, creating original compositions and performing on instruments (piano, guitar, world percussion). Elements of music included in the course are: theory, styles, technology, cultures, history, instruments and current trends in music. There are no prerequisites or participation fees for this class.

**Band** is offered in 7<sup>th</sup> and 8<sup>th</sup> grades. Students participating in band meet twice per cycle in a large group rehearsal setting where they learn the fundamentals of music through performance of a variety of musical styles as well the relationship to music theory and history. Band students are also scheduled for a small group lesson once per cycle on a rotating schedule. These lessons provide students with the necessary opportunities to learn the proper technique of playing their unique instruments and allow for individual student assessment. Students at all levels of ability are challenged to meet their own personal musical potential through home practice, lesson attendance, rehearsals and performances. All band members are required to attend two evening concerts and any after school rehearsals scheduled by the director. Wind Ensemble is an advanced level band available to 8<sup>th</sup> graders who meet musical performance criteria. Jazz Band is an after-school group available to 7<sup>th</sup> and 8<sup>th</sup> grade students who play jazz instruments and provides a smaller group experience in that genre. There are no beginning level band classes and all students entering band at the middle level must have participated in a band program for at least one year. *Participation in this class may require payment of the DASD activity fee.*

**Chorus** is offered to students in 7<sup>th</sup> and 8<sup>th</sup> grades. Students at all levels of ability are challenged to meet their own personal musical potential through classroom rehearsal and home practice. All chorus members are required to attend two evening concerts and any after school rehearsals scheduled by the director. Vocal Ensemble is an advanced level choir available to 7<sup>th</sup> and 8<sup>th</sup> graders who audition in the spring for placement for the following school year. Vocal ensemble students will learn the chorus songs as well as more advanced repertoire in their Vocal Ensemble classes. They are encouraged but not required to also sign up for a Chorus class where they will function as section leaders. In all classes, students are instructed in correct vocal technique, music theory and musicianship skills. Written work will include but not be limited to concert reviews, practice logs, music theory, tests and quizzes. Grading is based on class participation, written work, vocal technique, rehearsals and concerts. Participation in this will require payment of the DASD activity fee.

**String Orchestra** is offered to students in 7<sup>th</sup> and 8<sup>th</sup> grades. Students participating in orchestra meet twice per cycle in a large group rehearsal setting where they learn the fundamentals of performance through a performance of a variety of musical styles as well as its relationship to music theory and history. Orchestra students are also scheduled for a small group lesson once per cycle on a rotating basis. Small group lessons provide students with the necessary opportunities to learn proper technique and allow for individual student assessment. Students at all levels of ability are challenged to meet their own personal musical potential through home practice, lesson attendance, rehearsals and performances. Students in orchestra are required to attend two evening concerts and any after school rehearsals scheduled by the director. There are no beginning level orchestra classes and all students entering orchestra at the middle level must have participated in an orchestra program for at least one year. *Participation in this class may require payment of the DASD activity fee.*

## PHYSICAL EDUCATION

All students are required to take physical education in both 7<sup>th</sup> and 8<sup>th</sup> grade. The Physical Education program is designed to meet the physical, mental, emotional and social needs of the middle school student through vigorous physical exercise, life skills including cooperative learning, team building, problem-solving and positive peer interaction. Flexibility, strength, coordination, and cardio-vascular endurance are the ultimate goals of the total fitness-based program.

The program for 7<sup>th</sup> and 8<sup>th</sup> grade includes team sports, large group games, fitness activities, and adventure-based activities such as group challenges, a low ropes course and a bouldering wall. Each grade level may include different games or focus on advanced skills of the same sport offered at a lower grade level. Activities are designed to meet state standards: safety and injury prevention, physical activities that promote fitness, effects of regular participation

in physical activity, response of the body systems to physical activity, physical activity preferences, motor skill improvement, physical activity and group interaction, and concepts, principles, and strategies of movement. It is our intent that students acquire or further develop healthy habits, knowledge, skills, and attitudes that will last a lifetime.

## READING

The Middle School Reading Program promotes effective, proficient and independent readers. The following courses are offered to provide instruction that best fits the individual needs of the middle school student.

**Reading Foundations** is a strategy-based instructional program for students who struggle with reading. Ongoing assessment and monitoring of student progress enable teachers to provide appropriate instruction. Purposeful pacing, explicit instruction, ample guided practice, and targeted review characterize the instructional focus of this program. Materials and instructional methods that consider the interest of the student as well as the level of difficulty of reading selections foster the desired learning. This course is offered daily for the entire school year to recommended 7<sup>th</sup> and 8<sup>th</sup> grade students. Students who meet the prescribed set of reading proficiency criteria may exit the course before the end of the school year.

**Reading Comprehension** is a strategy-based program for struggling readers that focuses primarily on improving a student's ability to understand text. Explicit instruction and teacher modeling of essential comprehension strategies provide the instructional foundation of this course. Students apply these skills via guided and independent practice in a variety of reading situations. This course is offered daily for the entire school year to recommended 7<sup>th</sup> and 8<sup>th</sup> grade students. Students who meet the prescribed set of reading criteria may exit the course before the end of the school year.

## SCIENCE

### 7<sup>th</sup> Grade Science:

7th Grade Science is broken into two modules that each span one semester of the school year. The fall consists of an introduction to topics in ecology, such as the form and function of adaptations, natural selection, and the construction of interdependent relationships between organisms and their surrounding environment.

The spring semester will introduce students to topics in physics related to motion caused by the interaction of objects and the transfer and use of energy.

Students engage with these topics through hands-on activities, field experiences, and projects that require the development and use of models, the planning and carrying out of investigations, and the analysis and interpretation of data to construct explanations.

### 8<sup>th</sup> Grade Science:

8th Grade Science is broken into two modules that each span one semester of the school year. The fall consists of an introduction to topics in chemistry such as the classification of matter, atomic structure, construction and contents of the Periodic Table of Elements, and the interactions between and within atoms.

The spring semester will introduce students to topics in biology. These topics include the basic structure and function of cells as well as heredity and the transfer of genetic information from one generation to the next.

Students engage with these topics through hands-on activities, field experiences, and projects that require the development and use of models, the planning and carrying out of investigations, and the analysis and interpretation of data to construct explanations.

## SOCIAL STUDIES

The Social Studies curriculum is designed to provide the student with knowledge and appreciation of their own culture and history as well as that of their closest neighbors in North, Central and South America. Certain strands are interwoven within each grade level course: current events, cultural diversity, geographical influences, history, economics, and political science all become parts of the course content. The inclusion of these strands provides a much broader view of the particular topics being studied.



**7<sup>th</sup> Grade: History of the United States, American Revolution to the Civil War:**

Units of study include creating a new nation, the living Constitution, the New Republic, and United States expansion across the North American continent. Assessments include written tests, quizzes, projects and journals.

**8<sup>th</sup> Grade: History of the United States (1850-1918):**

Units of study include the Civil War, Reconstruction, Progressivism, United States Imperialism and World War I. Assessment of learning encompasses a variety of formats and may include: projects, written tests, quizzes and student presentations. Writing is incorporated into the 8<sup>th</sup> grade Social Studies curriculum through multiple means including essays, personal responses and journals.

## SPECIAL EDUCATION

The Middle School Special Education program addresses the needs of students with varying educational disabilities. The program ranges from supplemental to itinerant levels of support. Students all have an Individualized Education Program/Plan (IEP) and services are delivered through a variety of programs.

Supported instruction is a team approach where a regular education teacher and a special education teacher collaborate to meet the varying educational needs of the special education students in a regular education setting.

Special Education students are also given the opportunity to participate in a Curriculum Support class, known as Executive Functioning. This scheduled class addresses the needs of organization and time management in addition to supporting various curricular areas. Curriculum Support classes are scheduled for two, four, or six days per cycle, based upon the individual student's needs.

There is a Life Skills, Autistic, and Emotional Support program offered at each middle school.

## TECHNOLOGY EDUCATION

Technology Education is an activity-based curriculum that is based off of the Project Lead The Way (PLTW)-Gateway Curriculum. Students in 7<sup>th</sup> and 8<sup>th</sup> elect one of the PLTW courses and take the course 2 x's a cycle over the course of the academic year (excluding Engineering).

### PROJECT LEAD THE WAY (PLTW)

**Gateway to Technology (GTT)** is the PLTW middle level program. Throughout GTT, students acquire knowledge and skills in problem solving, teamwork, and innovation as well as explore STEM careers. Downingtown Area School District offers four units of study at the middle level:

**Energy and the Environment** - Students are challenged to think big and toward the future as they explore sustainable solutions to our energy needs and investigate the impact of energy on our lives and the world. They design and model alternative energy sources and evaluate options for reducing energy consumption through hands on activities.

**Science of Technology** - Science impacts the technology of yesterday, today, and the future. Students apply the concepts of physics, the design process, and nanotechnology to STEM activities and projects. They will discover the properties of nano-materials; how simple machines work through hands on activities.

**Design and Modeling** - In this unit, 8<sup>th</sup> grade students begin to recognize the value of an engineering notebook to document and capture their ideas. They are introduced to and use the design process to solve problems and understand the influence that creative and innovative design has on our lives. Students use industry standard 3D modeling software to create a virtual image of their designs and produce a portfolio to showcase their creative solutions.

**Automation and Robotics** – In this unit, 8<sup>th</sup> grade students trace the history, development, and influence of automation and robotics. They learn about mechanical systems, energy transfer, machine automation and computer control systems. Students use a robust robotics platform to design, build, and program a solution to solve an existing problem.

**Engineering: Future Cities Team** is offered to 8<sup>th</sup> grade students who have an interest in engineering and/or STEM based fields. Students will utilize a team-based approach to research, design, construct, and problem solve to create a city of the future while simultaneously writing a comprehensive 1000-word essay that summarizes the major engineering components of the city, a 500-word narrative of the top 10 innovative ideas to be utilized in the city and lastly building a physical city from recycled material. The culmination of the course is participation in the annual

National Engineers Week Future Cities team competition held during the month of January. Students will be selected based upon the completion of an application which will be evaluated by members of the technology education department and school administration.

One section of the course will be offered and students will meet every day for the entire academic year. The first two marking periods of the academic year (90 days) will be dedicated to Future Cities. The last two marking periods will be dedicated to of Project Lead the Way courses currently offered at the middle level.

**WORLD LANGUAGES**

**Middle School World Language Options:**

French, German, or Spanish

7 <sup>th</sup> Grade	8 <sup>th</sup> Grade
World Language Expeditions	Level 1

The main objective of the *World Language Curriculum* is to develop competence in the ability to understand, speak, read, and write in the target language, and to provide, through the knowledge of the language, an understanding and appreciation of literatures and cultures.

World Language courses at the middle level seek to:

- Create meaningful experiences while using the new language and learning about the culture;
- Develop capacity to communicate effectively in real-life situations;
- Promote healthy attitudes about people of other cultures;
- Provide motivation for continued language study.

French, German, and Spanish Expeditions (2x/cycle):

- Describe topics of day-to-day relevance, including studies, friends and other people, likes and dislikes, sports and pastimes;
- Become familiar with culture and traditions, and their influence on daily life where the target language is spoken;
- Read short, contextualized passages for comprehension;
- Use present tense forms of regular and irregular verbs;
- Engage in simple interpersonal exchanges, perform basic speech acts such as greetings, salutations, exchange of names, and politeness.
- Begin to write short, personalized pieces using appropriate grammatical structures;
- Engage in formal and informal speaking with classmates and with the teacher.

Level 1 of a World Language: Level I languages are introductory courses which develops students’ basic skills in all areas of communication in the target language: reading, writing, listening and speaking. There is an emphasis on elementary grammar constructions and vocabulary acquisition which provides the necessary foundation for basic communication. In this course, students begin to gain knowledge and understanding of the cultures and practices of countries that speak the given language.

Pursuant to applicable Federal and State laws and regulations, the Downingtown Area School District does not discriminate on the basis of race, religions, creed, color, national origin or sex.