



2019/2020

“Empowering each student to learn
and succeed in the 21st century”

Curriculum Overview



Grade 5



Our Educational Program

The Old Bridge Public School's educational program is driven principally by the district's mission statement:

“... *To empower each student to learn, to achieve success, and to become a confident, productive member of a pluralistic, global society prepared to face the challenges of the 21st century.*”

Underpinning this mission is the district's philosophy which asserts that addressing the needs of the “whole” child in a safe and supporting learning environment, fosters self-esteem, and a love for learning which in turn enables all children to achieve at their highest level possible. To this end, our district places a high priority on its award winning character education program for which Old Bridge Public Schools was recognized as a “National School District of Character” for the 2014-15 school year, a testament to our community's emphasis on respect, tolerance and fairness.

In concert with our philosophy is a steadfast commitment to curricular/professional standards, data, and feedback-informed decision-making relative to our educational programs. The district maintains a sharp focus on emerging best practices and current standards such as the Common Core and Next Generation Science Standards, while at the same time thinking critically about what will work best for our community and its youngsters. In Old Bridge, all curriculum areas are continuously reviewed and revised to insure the highest quality instructional program. Committees of teachers and administrators research the best educational practices, instructional materials and resources, align curriculum objectives to the appropriate state and national standards and the New Jersey Model Curriculum, and develop plans for program implementation and evaluation. An extensive professional learning program provides staff with the necessary training and support to effectively deliver outstanding educational services. All subject and curriculum guides may be found on the Old Bridge District website.

Above all, the district uses the Partnership for 21st Century Learning framework as the foundation of its curriculum, instruction, and assessment. The framework identifies learning and innovation skills which are essential for academic, professional, and personal success in the 21st century, the four Cs: critical thinking, communication, creativity, and collaboration.

Last and perhaps most importantly our district values parents/guardians and community partners as valuable stakeholders who can not only help to inform the district's decision-making; but also actively participate as partners in the most important mission of all: educating and nurturing the academic, social, and emotional growth of our community's children.

Language Arts Literacy

Journeys New Jersey Student Learning Standards

Journeys Common Core is the district 5th' grade English Language Arts program that is designed to meet the rigor of the New Jersey Student Learning Standards. Based on the principles of balanced literacy, the program incorporates writing and reading instruction through shared, guided, interactive, and independent reading. Students will be introduced to a diverse array of informational text and contemporary literature that increases in complexity as students move through the program. Students will be introduced to decoding, grammar, text-based comprehension, spelling and vocabulary through word study instruction; a developmentally based approach that creates general academic vocabulary and encourages deeper engagement in words and text.

Students learn to read through a combination of whole group, small group and individualized programs. Phonemic awareness is an essential component of the program. Writing instruction is infused into the students' day through mini-lessons that integrate learning groups in the process. Vocabulary, grammar, and spelling are also embedded in this comprehensive approach to language arts. Students continue expanding their skills in opinion, narrative, and informational writing.

5th grade students continue to learn many skills, including: naming and using knowledge of prefixes and suffixes, reading irregularly spelled words, applying knowledge of syllabication, using knowledge of vowel diphthongs, digraphs, and variants, and using knowledge of long and short vowels. Reading strategies such as questioning, connecting, inferring, summarizing, and determining importance are at the core of students' daily instruction. Comprehension skills include drawing conclusions, recognizing cause and effect, making predictions, comparing and contrasting information, and identifying the main idea. Differentiated instruction provides an effective and efficient language arts program where students can develop as critical thinkers who become life-long readers and writers.

Mathematics

enVisionmath2.0 (2016) is the newly adopted district core math program. It is a comprehensive, blended digital and print mathematics program designed to help your child achieve the mathematical proficiency levels established by the district, providing the foundation for future math courses. Your child will be actively involved in using both concrete and digital tools to develop deep mathematical understanding through practice and problem-solving in every math lesson. You can expect your child to learn and practice math concepts in a variety of ways, such as:

- Solving problems and explaining mathematical thinking both in writing and online
- Using online resources to build understanding
- Completing homework that promotes computational thinking, fluency, and application of skills
- Engaging in online practice through worked-out examples and supplemental videos

New Jersey Student Learning Standards introduced in Grade 5, supported by Mathematical Practices:

- Write and interpret numerical expressions
- Analyze patterns and relationships
- Understand the place value system
- Perform operations with multi-digit whole numbers and with decimals to hundredths
- Use equivalent fractions as a strategy to add and subtract fractions
- Apply and extend previous understands of multiplication and division to multiply and divide fractions
- Convert like measurement units within a given measurement system
- Represent and interpret data
- Geometric measurement- understand concepts of volume and relate volume to multiplication and to addition
- Graph points on the coordinate plane to solve real-world and mathematical problems
- Classify two-dimensional figures into categories based on their properties

Response To Intervention (RTI)

In order to better address the needs of “reaching” learners the district utilizes a Response to Intervention (RTI) program: RTI is a framework designed to provide educational support to students. It is most commonly used to address learning

challenges in reading and mathematics but is also applicable to social emotional needs. Initial screening assessments are administered to all students and support plans are developed for any student not meeting grade-level expectations. Interventions may take place within the classroom or outside of it depending on the nature of support required. Our teachers, interventionists, and paraprofessionals provide a variety of data/evidence informed interventions to ensure each student's success. Thus, student progress is regularly monitored to guide decision-making about instruction throughout the school year.

Social Studies

The fifth grade Social Studies curriculum is an introduction to American history. As such, the subject matter will concentrate on certain key themes and events in the American experience. Historical content includes Colonial and Revolutionary periods, Civil War, western expansion, and the Industrial Revolution. Students learn about the foundations of representation and government, as well as the important ideas in the Declaration of Independence, Bill of Rights, and the U.S. Constitution. Fifth graders will continue to learn core concepts in civics, economics and geography.

Music & Art

Music and Art are regarded as essential parts of a child's development. Aside from the inclusion of various Art and Music projects into the academic curriculum, our elementary school art and music teachers work diligently to expose and educate their students to various aspects of music and art production and appreciation. The programs are spiraled in nature so that the information introduced will be revisited and will gradually increase in depth and scope. The students' works are proudly displayed around the schools as well as in the Central Administration building. Many of their works have also been displayed at the Old Bridge Public Library during March, Youth Art Month.

The Music Program at the elementary level provides students an introduction to basic notation and music production on their own recorder. The instrumental program which now begins in fourth grade allows the students to have a broader exposure to music production and appreciation and gives students the opportunity to begin playing woodwind, brass, and string instruments. Here students gain fundamental knowledge of instrumentation and ensemble performance. Together, the art and music programs provide an exceptional foundation for the continued study and enrichment of your children.

World Language

Old Bridge Schools are on the cutting edge of pedagogical theory when it comes to language instruction. The realization that secondary language learning occurs easiest at younger ages spurred the development of our elementary language program. The elementary language instruction program incorporates the instruction of language and culture beginning in third grade. Coupled with weekly reviews, the cultural and linguistic benefits are exceptional. In today's multicultural world, it is essential that students be exposed to multiple languages. Early world language study has also been linked to benefits in later educational accomplishments and higher test scores. We are proud and pleased to offer language instruction in grades 3-5, and encourage the continuation of multiple language study throughout our programs in middle and high school.

Science

The elementary school grade-level curricula are aligned to the approved Next Generation Science Standards that were adopted and implemented statewide in September, 2014. The three of each standard of the NGSS are disciplinary core ideas, scientific and engineering practices, and cross-cutting concepts.

Science is a human activity through which problems dealing with natural phenomena can be identified and defined, followed by having potential courses of action proposed and tested before determining a final solution. Science instruction incorporates a format of differentiated learning strategies and

instructional activities with an emphasis on student-centered hands-on opportunities. Scientific investigatory practices such as measurement, observation, data collection, and analysis of results, are infused in the instructional process to create different pathways that address the needs of diverse learners. The process of using the scientific method helps students to develop and hone investigation skills, to thus better understand their surroundings and to make practical connections that apply content material and experiences to real world situations.

Recognizing the globalization of 21st century learners, science education must lay the foundation for developing scientific literacy to allow our students to successfully participate in a world increasingly shaped by science and technology. Thus, there are continual cross-curricula efforts in the areas of science, technology, engineering and mathematics (STEM) to develop and refine skills such as critical thinking, complex problem solving, operations and systems analysis, and both deductive and inductive reasoning. New Jersey, in its push for college and career readiness, has identified such knowledge and skills as those deemed essential for future personal and professional success.

Physical Education

Our fifth grade Physical Education Curriculum is a planned and sequential program that fosters a lifelong commitment to physical activity. Playing by the rules and respecting self and others are emphasized as students participate in cooperative and competitive physical education activities. FITNESSGRAM will be used to help assess student fitness levels as well as begin to teach students to set fitness goals for themselves. Fitness areas include muscular strength, muscular endurance, flexibility, agility, and aerobic capacity.

Health

In fifth grade, students have the opportunity to participate in various learning experiences that will enhance their health knowledge and lead them to a lifetime of good health. Areas of learning include: the human body, growth and development, personal health, nutrition, disease prevention, family living, tobacco alcohol/drug prevention, emotional and social, family and community health. All topics follow the New Jersey Core Curriculum Standards and are developmentally and age appropriate in their content and delivery.

Technology

New Jersey Student Learning Standards for Technology challenge students at all grade levels to master higher-order thinking skills as well as to become responsible digital citizens of our global society. Old Bridge Township Public Schools offers robust technology training at all grade levels. Classroom teachers integrate technology across all subject areas in their own classrooms in addition to computer lab instruction by a computer literacy teacher throughout the year as part of the Related Arts cycle.

In addition to New Jersey Student Learning Standards for Technology, technology instruction also supports New Jersey Student Learning Standards for 21st Century Life and Careers. These college and workplace readiness skills include:

- Creativity and innovation
- Communication and collaboration
- Conducting research and using information
- Critical thinking and problem solving
- Using technology in all forms effectively and productively

Our curriculum is supported through the use of the following applications:

Grade 5

Keyboarding software; Microsoft Office & Office 365; Internet Safety; Coding; Teacher-selected Internet sites; an awareness of the student's role and responsibilities in the global society.

Our Computer Literacy Program for Grade 5 focuses on the student's capacity to use operations and applications, apply information literacy skills, and select appropriate tools and resources to complete their tasks. Digital citizenship is reinforced throughout all activities. Global awareness is fostered through project-based activities which encourage collaboration to arrive at solutions to problems. Students in Grade 5 are encouraged to analyze and make recommendations. Coding activities are increased and participation in the global "Hour of Code" is a focus.

Students in Grade 3 through 12 are assigned logon credentials for Office 365 which allow them to utilize Microsoft products in a "cloud" environment.

Elementary students in Grades 2 through 5 are assigned an individual ID for Study Island which can be used at home. In addition to practice in English Language Arts and Math, Study Island also helps students become more comfortable with the computer testing format. Students also begin to prepare for online testing by using interactive websites. Resources for online test preparation can be found at www.obparcc.com. Family members can assist with these efforts at home by encouraging practice for standardized tests through the use of teacher-recommended websites.