

Belleville Public Schools: Tiered System of Supports 2019-2020

Family & Community Engagement District & School Leadership Positive School Culture & Climate

Tier 1

RISE and Shine - Breakfast program

Universal classroom supports

Multiple modes of delivering instruction (Google classroom, online videos, one-on-one, whole-class)

Curricular Accommodations listed in lesson plans in *OnCourse*

Accommodations through online curricular platforms

After-School Tutoring

ALEKS (Math for BMS & BHS)

LightSail (ELA for BHS)

Lexia (ESL at BHS)

Freshman Experience (Team Model for all 9th graders at BHS)

Drop-In Center (Social/Emotional Support at BHS and BMS)

Belleville BANK program (District-wide behavior management system in all elementary schools)

Access to Guidance Counselors and School Psychologists

Tier 2

Targeted After-School Tutoring

Distribution of information/resources for local Mental Health professionals

Preschool Intervention & Referral Team (PIRT)

WonderWorks (ELA for Elementary)

B.U.C.S- Alternative Education Program (BHS)

Intervention and Referral Services (I&RS) in each building

Monitoring success of data-driven interventions

Data-based decision making through *OnCourse*

Targeted class selection (BMS and BHS)

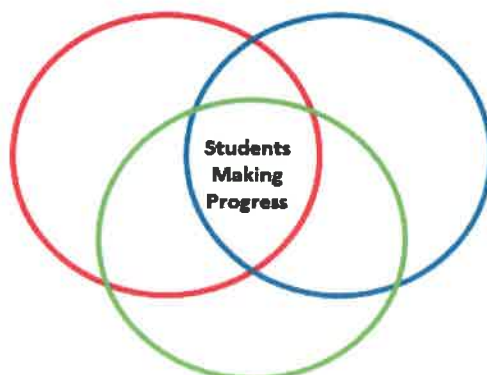
Additional modifications via Google Chrome extensions

Counseling groups for targeted, at-risk students

Tier 3

Special Education Services

**Targeted Communication
with Families/Guardians**



Adaptations to Tier 1 and Tier 2 Interventions

Intervention Programs / Software Report

S.T.E.M. (Science, Technology, Engineering, Math)

EnVision 2.0 (Math K-6)

- Math Diagnosis and Intervention System 2.0 Intervention Lessons helps teachers target the individual needs of each student in their math classrooms. All lessons are two pages and allows teachers to assess students' ability and track progress. Organized by strand, tied to lesson concepts, and addressing a range of grade levels, it is ideal for use in after-school programs or regular classes. Each part of this system contains a Teacher's Guide and tests.
- Through organization of clusters of connected topics and lessons, students learn to see relationships, ask questions, and try different approaches. Problem-based learning drives students to engage in productive struggle. Tiered activities, learning centers, flexible grouping, and technology help accommodate learning styles and readiness.

Defined STEM (7-12)

- Defined STEM is a project-based learning solution that provides engaging, authentic lessons built around careers. Cross-curricular projects provide opportunities for students to deepen understanding and apply their knowledge in real world scenarios. Each project puts students in the role of a specific STEM career and asks them to conduct an authentic performance task to apply their knowledge and skills to prove their understanding. In addition, it provides teachers with all of the essential project design elements they need to implement and assess high-quality project based learning: interdisciplinary performance tasks, literacy tasks, engaging videos, research resources, an assessment manager and more. Real-world videos set the stage for each lesson by showing the practical application of STEM educational concepts within a company/industry.
 - Interdisciplinary Performance tasks: presenting students with a real-world problem and asking them to solve it by applying their knowledge and skills learned in the classroom,
 - Literacy tasks: asking students to read, synthesize and write informative and/or position papers around the real world career based topic,
 - Engaging real-world videos: set the stage for each lesson by showing the practical application of STEM educational concepts, research resources, an assessment manager and more.
- Student outcomes are driven by project based learning to set the stage for each lesson by showing the practical application of STEM educational concepts.

ALEKS (Math 7-12)

- Assessment and Learning in Knowledge Spaces is an online math solution for sixth through twelfth grade that uses artificial intelligence to identify and provide instruction on the topics each student is most ready to learn. It's an approach proven to create

main confidence and measurable success. ALEKS helps each student meet rigorous standards with differentiated instruction specific to their unique needs by creating an individualized learning experience that is personalized, focused and insightful. As students work through their ready-to-learn topics, ALEKS provides immediate feedback, detailed explanations, definitions, and other tools for building mastery.

- ALEKS periodically reassesses the student to ensure that topics learned are also retained. In addition, ALEKS courses are complete in topic coverage avoiding multiple choice questions.

TI-84 Graphing Calculator Software (9-12)

- *The TI-84 Graphing Calculator* is an essential educational tool, that is conveniently preloaded with software, including Cabri Jr. interactive geometry software. This Texas scientific calculator features up to ten graphing functions that can be defined, saved, graphed and analyzed at one time. The advanced functions are easily accessed through pull-down display menus for convenience and ease of use. This programmable scientific calculator has horizontal and vertical split screen options. It also features an I/O port for communication with other TI products. The Texas Instruments TI-84 Plus graphing calculator has eight display lines and is the calculator of choice for the NJSLA - Math assessments.

DESMOS Calculator Software (9-12)

- The Desmos graphing calculator allows users to view and manipulate multiple representations simultaneously, promoting a deeper conceptual understanding of mathematics. Desmos has features that promote student inquiry and help students understand the rich connections and complexity of mathematics. Using the powerful and blazingly-fast math engine, the calculator can instantly plot any equation, from lines and parabolas up through derivatives and Fourier series. Sliders make it a breeze to demonstrate function transformations. Some of the noted features are:
 1. Graphing: Plot polar, cartesian, or parametric graphs. There's no limit to how many expressions you can graph at one time - and you don't even need to enter expressions in $y=$ form!
 2. Sliders: Adjust values interactively to build intuition, or animate any parameter to visualize its effect on the graph. Try typing $y=mx+b$ and adding sliders to get started.
 3. Tables: Input and plot data, or create an input-output table for any function.
 4. Statistics: Find best-fit lines, parabolas, and more.
 5. Calculus: Graph derivatives (d/dx) and explore key concepts by building secant and tangent line sliders. Graph Maclaurin Series (okay, all kinds of Taylor Series, but that guy gets no love...) Evaluate a definite integral (int) in an instant, or plot an integral with varying bounds.
 6. Zooming: Scale the axes independently or at the same time with the pinch of two fingers, or edit the window size manually to get the perfect window.
 7. Points of Interest: Touch a curve to show maximums, minimums, and points of intersection. Tap the gray points of interest to see their coordinates. Hold and drag along a curve to see the coordinates change under your finger.

8. Scientific Calculator: Just type in any equation you want to solve and Desmos will show you the answer. It can handle square roots, logs, absolute value, and more.
9. Inequalities: Plot cartesian and polar inequalities.

Humanities (ESL, ELA, Social Studies, Art)

Lexia (ESL K-12)

- Lexia Core5 Reading is recognized by WIDA as satisfying all 44 criteria under the WIDA PRIME V2 Correlation for English Language Development Standards.
- Lexia provides scaffolded support in Spanish, Portuguese, Mandarin, Haitian-Creole, Vietnamese, and Arabic.
- For Newcomer EL students with beginner-level language and reading skills:
 - Learn key comprehension strategies for listening and reading
 - Develop phonological awareness and phonics skills that are integrated with oral language development
 - Leverage picture-based activities to build concrete and abstract academic vocabulary
- For students with proficient language skills but weak reading skills:
 - Develop sophisticated vocabulary and strong academic language
 - Read challenging narrative and expository texts to develop advanced comprehension skills
 - Learn figurative language and word concepts such as idioms, similes, and metaphors
- Additionally, Lexia supports phonological awareness and phonics at the earliest skill levels; enhances vocabulary knowledge; develops key comprehension strategies; builds fluency; and improves speaking and listening skills.

Learning A-Z (ESL K-6)

- The ELL Edition for Learning A-Z provides a number of research-based resources and teaching strategies specifically designed for helping English language learners achieve success with social and academic English. The ELL Edition's resources are organized in content area topics at varying grade ranges, and include integrated grammar and vocabulary support. The ELL Collection provides a wealth of targeted ELL resources created for guiding ELLs in practicing key speaking, listening, reading, and writing skills, which are organized in content area topics at varying grade ranges. These resources include:
 - Leveled Reader Packs that structure vocabulary, grammar, speaking and writing supports with engaging texts and multi-day lesson plans.
 - Content Picture Packs that help students learn essential vocabulary with colorful, detailed illustrations and guided lesson plans.
 - Vocabulary Books that develop students' Tier 2 and 3 academic and social language skills.
 - Assessments that track students' language learning progress and provide in-depth information about students' development in speaking, reading, listening, and writing.

- Language Skill Packs that offer content-based materials to support student progress in math, foundational skills, science, language arts, social studies, and social and instructional language.
- Vocabulary Power Packs that provide digitally accessible activities where students practice content-based vocabulary with clear definitions, engaging images, and discussion questions that encourage making real world connections.

Wonders ELD (Supplemental/Intervention ESL K-6)

- Wonders for English Learners offers instruction specifically designed to create learning experiences that increase student engagement, build language skills, and inspire confidence. Lessons emphasize building speaking, listening, reading, and writing skills to improve both academic and social language and accelerate progress in the core classroom. The Leveled Reader trade books with lesson plans are thematically connected to each unit. Every week, instruction for each level covers the same subject, theme, content skills, and strategies and contains 50 percent information and 50 percent literary text selections.
- The *My Language Book* is a visual resource for developing oral language, as well as support for writing, responding to complex text, and grammar.
- The Teacher's Edition offers targeted instructional support for Beginning, Intermediate, and Advanced levels, to support students toward accelerated progress, one volume per grade.
- The Language Development Cards provide opportunities for students to practice language and grammar skills at their proficiency levels.

Wonderworks (Intervention ELA K-6)

- Wonderworks is a flexible intervention program that can easily be incorporated into the current English Language Arts curriculum. Wonderworks drives student achievement by:
 - Building strong foundational skills
 - Developing close reading skills *Differentiating instruction with scaffolded support
 - Engaging students digitally *Informing instruction through assessment
- Grades K and 1 are focused intensively on foundational skills, which are crucial for developing proficient readers. The explicit, systematic instruction focuses on phonological awareness, phonemic awareness, phonics, word recognition and automaticity, oral vocabulary, and fluency, including important precursor skills.
- Grades 2-3 and 4-6 Foundational Skills Kits provide explicit and differentiated instruction of key foundational skills. The Interactive Worktext for grades 2-6 allows students to interact with complex texts through close reading by taking notes, marking text evidence, and writing responses in their own print or eBook version.
- Wonderworks offers leveled readers that provide both literary and informational text. With consistent application of scaffolded instruction, students "Level Up" from the Apprentice level to the Approaching Level.
- WonderWorks supports struggling readers/writers through research-based data-driven, systematic instruction. Students move ahead to grade-level standards through close reading skills, differentiated instruction with scaffolded support, and

informing instruction through assessment. The Adaptive Learning system provides personalized digital instruction and practice in foundational skills, allowing students to work at their own pace and instructional level.

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MyPerspectives (ELA 7-12)

- English Learner/High Interest Support (Reality Central/High Interest Readings). Accessible Leveled Texts: Reality Central is a nonfiction anthology featuring short, high interest, readings on topics and issues students encounter every day. Selections are written slightly below grade level to reach all readers, making the program ideal for English Learners and striving readers.
- Reality Central supports below level readers' development of skills such as:
 - Vocabulary development-Pre and post reading support
 - Connection to background knowledge for success in Lit program
 - Targeted writing instruction
 - Discussion opportunities
- The accompanying Writing Journal gives students complete writing support, guided practice, and extensive vocabulary support, including graphic organizers.

iLit (ESL 9-12)

- iLit is a comprehensive reading intervention program. Teachers and students can access this fully digital program on multiple platforms and devices, and it utilizes a proven instructional model. It includes every resource you need to support your Tier 2, Tier 3, and English language learner (ELL) students: curriculum, assessment, data, and professional development. iLit contains extensive support and scaffolding for ELLs. It is ideal for pull-out classes, intervention classes with a high population of ELL students, or as a core or designated English Language Development (ELD) curriculum.

Rosen LightSail (ELA 9th all; special education students 10-12)

- Adaptive digital reading platform. Students' Lexile level is determined with an initial adaptive assessment. Students' personalized digital libraries are populated with “just right” books. Libraries are differentiated based on students' abilities and allows the teachers to target instruction. Progress monitoring is embedded into daily practice in a natural way. Students answer multiple-choice, written-response, and Cloze assessments throughout each text. As student ability grows, Rosen-LightSail tracks achievement and updates the selections in each reader's library.

Cross-Curricular

IXL (ELA, Math, Science, and Social Studies K-6)

- IXL is an immersive learning experience that provides comprehensive, standards-aligned content for math, language arts, science, and social studies. IXL offers personalized skill recommendations that encourage growth and exploration, and empowers students to make smart choices about what to learn next within grades Pre K through twelve. Recommendations made through IXL cultivate curiosity. Personalized skill recommendations encourage growth and exploration, and empower students to make smart choices about what to learn next. Diagnostic feedback tells exactly what the students know and gives each learner a unique action plan to continue developing their abilities. Analytics elevates learning as it provides real-time insights that help address trouble spots and refine teaching in the moment, so student improvements can be closely and easily observed.

Newsela (7-12)

- Newsela is a platform that allows students to master nonfiction in any subject. By combining real-time assessments with differentiated content from premier daily news sources like the Associated Press, Washington Post, and Scientific American and eminent nonfiction publishers like Smithsonian, The King Center, and Biography.com, Newsela makes reading-to-learn relevant, interesting, and effective regardless of interest or ability.
- All articles are published at five reading levels with built-in assessments to engage students in high-interest nonfiction, covering current events, primary sources, speeches, biographies, and historical news.
- With Newsela, teachers across English, Social Studies, and Science have everything they need to inspire their students to develop the critical nonfiction literacy skills that will empower them to take part in conversations about complex issues, and prepare them for academic and professional success.

Other

OnCourse Assessment

- Standards-based, and aligned, assessment tools that allow for students to demonstrate their knowledge with interactive passages, spoken responses, matching/highlighting, charting, math/chemistry formulas that are all aligned to New Jersey Student Learning Standards. OnCourse Assessment allows for educators to choose from standard-aligned item banks with over 35,000 questions, or to create their own assessment questions aligned to programmatic and intervention-based needs. OnCourse assessment allows for educators to conduct formative assessments that target specific curricular benchmarks. The data compiled from the assessments can be used to initiate intervention services, individualized tutoring topics, or classroom (re)structuring based on abilities.

OnCourse Analytics

- Analytics serves as a data collection tool that allows for various streams of assessment data and overall student performance to be displayed in multivarious forms. The intent of Analytics is to be used as a virtual magnifying glass to explore data from many angles. Analytics is to be used by local School Improvement Panels

(SCIP) to assess areas of performance strengths and weaknesses through team data-dives that provide both micro and macro performance data on schools, and individuals within the schools. Such data can be used to inform teachers, administrators, and parents of needs in the process of creating academic plans for the buildings. This may include, but is not limited to, additional tutoring, professional development; community night topics, and/or referral/intervention services. With extractable data displays and student performance lists, areas in need of improvement can be provided to, and studied by all stakeholders.