



LAKEVIEW MIDDLE SCHOOL

COURSE of STUDY GUIDE

GRADE 8

2023-2024

LAKEVIEW MIDDLE SCHOOL

Our mission is to inspire and equip all students to continuously acquire and apply knowledge and skills while pursuing their dreams and enriching the lives of others.

Dear Student and Parent(s)/Guardian(s),

Welcome to Middle School! Lakeview is excited to serve you and your child during these middle school years. In middle school, we strive to help students acquire and apply knowledge and skills through a variety of classes and programs. Many new courses are being offered, so please make sure to look over this booklet.

The scheduling packet includes descriptions of the required and elective classes for each grade. Also included you will find a course selection sheet and a sample scheduling worksheet to help each student understand the bigger picture. Each student will be placed in a Math, Language Arts and Science class as per the rubric results.

We look forward to spending the next year with your child, guiding in the pursuit of his or her dreams. Feel free to contact us if we can be of assistance.

Lakeview Middle School

Principal: Mr. Todd Braddock

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Counselor: Mrs. Emily Day

eday@warsawschools.org

LANGUAGE ARTS

Students are placed into the appropriate language arts class based on student data and a rubric.

HONORS LANGUAGE ARTS 8

Length: Full Year

Honors Language Arts 8 is an accelerated class that requires students to think deeply and richly about both fiction and nonfiction. This course will offer a blend of classic and contemporary works from authors of diverse backgrounds. Students will experience a course that integrates reading, writing, listening and speaking in a collaborative classroom setting.

Students who are selected to take Honors Language Arts 8 should meet the following criteria:

1. A history of Pass+ scores and/or high growth on ELA ISTEP tests
2. A history of above average grades in ELA
3. A reading level at or above grade level
4. A positive attitude and consistent work ethic

Those not presently included in the program may petition for consideration following the established guidelines.

LANGUAGE ARTS 8

Length: Full Year

Language Arts 8 will encourage students to develop reading, writing and speaking skills in the English language. Students will read and analyze novels and write responses to literature. Students will become better thinkers who write and read with confidence.

WRITING 8

Length: Two 9-Weeks (Writing 8A/Writing 8B)

Writing 8 is a one-semester course that will develop writing skills. Students will also write informative, narrative, and argumentative pieces in a variety of formats. Speaking and listening skills will be addressed with presentations of student writing. Grammar will be taught in the context of writing.

MATHEMATICS

Students are placed into the appropriate math class based on student data and a rubric.

GEOMETRY

Credit: Eligible to earn two (2) high school credits

Length: Full Year

Geometry is offered at the 8th-grade level for those students who took Algebra I in the 7th grade. This course stresses logical reasoning through the development of formal proofs. The course emphasizes plane geometry, but it does refer to the concepts of space. In addition, the course includes such topics as trigonometry, area and volume measurement, constructions, and coordinates geometry. Algebra is used throughout the course to solve problems in geometry. For this reason, if a student has not maintained a strong grade average in Algebra I, it is recommended s/he repeat Algebra I.

ALGEBRA I

Credit: Eligible to earn two (2) high school credits

Length: Full Year

Algebra I is required for admission to many colleges, technical schools, and trade schools. The emphasis in Algebra I is on using mathematics to develop orderly, logical thinking. Students will study linear equations and inequalities in one and two variables, functions, systems of equations, multiplying and factoring polynomials, rational expressions, graphing, and radical expressions. Skills and processes necessary for further math courses are introduced and developed.

MATH 8

Length: Full Year

The comprehensive content of *Math 8/Intro to Algebra* is appropriate for the college-prep as well as the career-prep student. This course introduces and develops algebraic concepts such as variables, equations, and problem solving. Other topics include integers, rationals, graphing, geometry, statistics, and probability. Students are expected to have an understanding of arithmetic and basic operations upon entering the course.

SCIENCE

Students are placed into the appropriate science class based on student data and a rubric.

BIOLOGY I

Prerequisite: Honors Science 7 and currently taking Algebra or Geometry in 8th grade and math teacher recommendation.

Credit: Eligible to earn two (2) high school credits

Length: Full Year

Upon completion of *Biology 1A*, students will understand and be able to explain the modern classification, system, the scientific method, the characteristics and organization of living things, the principles of ecology; which include the flow of energy in ecosystems, nutrient cycles and the interactions of populations, and the principles of cellular biology; which includes cellular structure and function, energy production and metabolism in organisms, and cell division.

In *Biology 1B* students will study microorganisms including viruses, bacteria, protists and fungi, the fundamentals of Mendelian genetics, and plant and animal structure and function. Students will leave the course with an appreciation of man's responsibility for environmental stewardship. Lab experiences will include but not be limited to use of the microscope, and outdoor labs.

SCIENCE 8

Length: Full Year

Science 8 will focus on the Life Sciences that are necessary to be successful in Biology at the high school in the 9th grade year. Topics covered will include: Ecology, cells, microscopes, genetics in plants and animals, and evolution. This class emphasizes basic skills and knowledge to succeed in a science setting, including lab notebooks, labs, and activities.

SOCIAL STUDIES

SOCIAL STUDIES 8: U. S. HISTORY

Length: Full Year

Students will examine the relationship and significance of themes, concepts, and movements in the development of United States history, including review of key ideas related to the discovery, exploration, and colonization of America, and the revolution and founding era. The course will then emphasize social reform, national development and westward expansion, and the Civil War and Reconstruction period.

HEALTH & WELLNESS/PHYSICAL EDUCATION

HEALTH & WELLNESS/PHYSICAL EDUCATION 8

Length: Two 9-Weeks (8A/8B)

The *Physical Education 8* classes will focus on skill development as well as competency in order to participate in lifelong fitness and activities. Students will be challenged through a variety of activities as well as in fitness development. Students will consistently analyze, record, and report heart rate data during class activities. Students will utilize data to personalize workouts and achieve fitness goals.

The *Health & Wellness 8* curriculum will include topics such as: fitness and exercise, heart rate/wearable fitness technology, nutrition, mental health, and first aid/CPR.

PERSONALIZED HEALTH & WELLNESS/PHYSICAL EDUCATION 8

Length: Full Year

Serious about fitness? Would you like to enhance your sport performance and abilities by developing basic fitness skills essential for all types of activities and sports? If so, this course is for you. It will focus more intently on personal fitness needs, proper technique for skill proficiency, sport-specific goals and weight-loss goals for those interested. *Personalized Health & Wellness/Physical Education 8* is a year-long course that will replace other physical education classes. Must maintain a C average to remain in the course for the following semester.

Prerequisite: A/B in 7th PE/H; C Average in 7th PE/H, must have approval from teacher.

ELECTIVES

AGRICULTURAL SCIENCE AND BUSINESS

5056 INTRODUCTION TO AGRICULTURE, FOOD AND NATURAL RESOURCES A

Prerequisite: None

Credit: Eligible to earn (one) high school credits

Length: 1 Semester

Recommended Grade(s): 8

Introduction to Agriculture, Food and Natural Resources is a one-semester course that is highly recommended as a prerequisite to and as a foundation for all other agricultural classes. Through hands-on learning activities, students are encouraged to investigate areas of agriculture. Students are introduced to the following areas of agriculture: **food science, natural resources, careers in agriculture, leadership and FFA, supervised agricultural experience, and agriculture power, structure, and technology.** An activity and project-based approach is used along with team building to enhance the effectiveness of the student learning activities.

5056 INTRODUCTION TO AGRICULTURE, FOOD AND NATURAL RESOURCES B

Prerequisite: None

Credit: Eligible to earn (one) high school credits

Length: 1 Semester

Recommended Grade(s): 8

Introduction to Agriculture, Food and Natural Resources is a one-semester course that is highly recommended as a prerequisite to and as a foundation for all other agricultural classes. Through hands-on learning activities, students are encouraged to investigate areas of agriculture. Students are introduced to the following areas of agriculture: **animal science, plant and soil science, horticultural science, landscape management/design, and agricultural business management.** An activity and project-based approach is used along with team building to enhance the effectiveness of the student learning activities.

- Recommended Grade(s): 8
- Required Prerequisites: none
- Recommended Prerequisites: none
- Credits: 1 semester course, 1 credit per semester, 1 credit maximum
- Counts as a directed elective or elective for all diplomas

EXPLORING AGRICULTURAL SCIENCE AND BUSINESS A

Suggested Grade Level: 7/8

Length: 9 Weeks

Exploring Agricultural Science and Business A allows students to explore agriculture science and business. This course allows students to be exposed to how agriculture affects their everyday lives. Students will have the opportunity to discuss various topics in agriculture including: Natural Resources, Conservation, Food Science, and Careers. Students will participate in hands-on activities and labs to develop an understanding of the importance of agriculture.

EXPLORING AGRICULTURAL SCIENCE AND BUSINESS B

Suggested Grade Level: 7/8

Length: 9 Weeks

Exploring Agricultural Science and Business B is a nine-week course which allows students to explore Agricultural Science and Business. This course allows students to be exposed to how agriculture affects their everyday life. Students will have the opportunity to discuss various topics in agriculture focusing on the topics of: Animal Science, Horticulture Science, and Landscape Management/Design. Students will participate in hands-on activities, projects, and labs to develop an understanding of the importance of agriculture.

BUSINESS AND INFORMATION TECHNOLOGY

BIT: DIGITAL DESIGN & PUBLICATIONS

Length: 9 Weeks

Expand your skills by using computer programs and online applications for desktop publishing, drawing, photo editing, and creating presentations. Students will explore the principles of design based on image selection, text formatting, page layout, and color selections. Students will create projects based on real world challenges that give them the opportunity to construct, edit, and utilize their own drawings and photos. Students will choose their favorite topics and subjects to showcase for their projects. This is a great opportunity for students to combine creativity and technology to showcase their many talents.

- a. Desktop Publishing
 - i. Publisher
 - ii. PowerPoint
 - iii. Prezi
 - iv. PowToons
 - v. Other Online applications

- b. Photo Editing
 - i. Adobe Products
 - ii. Microsoft Office
 - iii. Paint
 - iv. SumoPaint
 - v. Other Online applications

BIT: INTRO TO COMPUTER SCIENCE

Suggested Grade Level: 7/8

Length: 9 Weeks

This course demystifies computer science and shows students it's fun, collaborative, and creative sides. Students will learn about computer science, computational thinking, and programming languages. Students will primarily use online platforms to learn various methods of programming, including how to create their own apps for mobile devices. Students will use coding to play games, as well as create their own games and apps.

- | | |
|--------------|---------------------|
| a. Platforms | b. Online Resources |
| i. Blockly | i. Code.org |
| ii. Tynker | ii. Code Avengers |
| iii. Scratch | iii. Codecademy |
| iv. Lightbot | iv. Khan Academy |
| v. Hopscotch | vi. Code Combat |
| vi. Ruby | |

BIT: MICROSOFT ACADEMY

Suggested Grade Level: 7/8

Length: 9 Weeks

Experts say less than 10 percent of software capabilities are utilized. Join us as we move deeper through ribbons and submenus of popular software programs. Students will use the Microsoft Office Suite (Word, Excel, PowerPoint and Publisher) to create professional-quality documents, worksheets, presentations, and publications. Students will role play as office assistants for a company of their choice. In this position, they will create logos, letters, news releases, posters, etc. This class will not only give prepare students for academic success for middle school, high school, and college; it will also give them job skills they can utilize in their everyday lives as adults.

- a. Word
- b. Excel
- c. Publisher
- d. PowerPoint
- e. Access
- f. Office 365
- g. Collaboration

BIT: FOCUS ON BUSINESS

Suggested Grade Level: 8

Length: 9 Weeks

B.C. Forbes suggested, “A business, like an automobile, has to be driven in order to get results.” Learn to drive your own business by receiving an introduction to the nature of business, how it operates, and how it is managed. Identify various forms of ownership and the processes used in business operations including marketing, management, accounting, and e-commerce. Then create and promote your own business, while being exposed to a multitude of career fields in the areas of business. In addition play online, class, and board games to understand basic accounting principles. This class will help prepare students and give them a better understanding of some of the opportunities they will be able to pursue in high school.

- a. Marketing
- b. Accounting
- c. Business Law
- d. Entrepreneurship
- e. E-commerce
 - i. Ebay
 - ii. Etsy
 - iii. Promoting & selling using social media

FAMILY AND CONSUMER SCIENCES (FACS)

FACS: STITCH-N-SAVE

Suggested Grade Level: 7 or 8

Length: 9 Weeks

Stitch-n-Save class applies math and language arts concepts through hands-on experiences to develop skills needed for resource management including money management skills stressing the use of credit and debit cards and the importance of saving money. Food preparation is included as a method of saving money. Students will learn about clothing care and laundry basics. Students will practice measuring with rulers, cutting fabric, sewing on buttons, and hand stitching. Machine sewing will be taught if there is time. Some cooking labs included. The electronic (STEM) sewing project will require a \$12 fee.

FACS: EVERYDAY SKILLS

Suggested Grade Level: 7/8

Length: 9 Weeks

Everyday Skills class applies math and language arts concepts through hands-on experiences to develop skills needed for life including child development, nutrition and wellness and food preparation. Students will learn about the 5 developmental areas of children starting at birth through preschool, child safety and discipline techniques. Students will acquire skills needed for healthy eating habits by using www.ChooseMyPlate.gov and preparing food properly and safely. Cooking labs included.

FACS: SUCCESSFUL LIVING

Suggested Grade Level: 7/8

Length: 9 Weeks

Successful Living class applies math and language arts concepts through hands-on experiences to develop skills needed for life including interpersonal relationship skills including communication and conflict resolution skills, table setting and manners as well as food preparation. Solving problems in kitchen math will help students apply math concepts to measuring and food preparation tasks. Cooking labs included.

PERFORMING ARTS

INSTRUMENTAL MUSIC: STRINGS

Suggested Grade Level: 7/8

Length: Full Year

Middle School String Orchestra is based on the Indiana Academic Standards for Instrumental Music and provides students the opportunity to apply knowledge and skills learned in the elementary music curriculum by beginning or continuing to play an orchestral string instrument. The orchestra classes will provide instruction on the following instruments: violin, viola, cello, and string bass. Ensemble and solo activities are designed for students to develop basic elements of musicianship including note reading skills, bow technique, and intonation. Activities will include improvising, composing, reading, notating, and sight-reading music; listening, analyzing, evaluating, and experiencing historically significant styles of literature. Students will be given opportunities to participate in performances outside of the school day that support and extend the learning in the classroom.

INSTRUMENTAL MUSIC: ADVANCED BAND

Prerequisite: At least one year of playing experience

Length: Full Year

The 8th-grade Tiger Band will meet all year, five days a week. These students will have the opportunity to perform in formal concerts both in the spring and the fall and to enter solo and ensemble contests. 8th-grade band will be limited to students who have had at least one year of playing experience.

VOCAL MUSIC

Suggested Grade Level 7/8

Length: Full Year

Chorus is an opportunity for students to learn how to sing correctly. Students will be introduced to the basic fundamentals of good choral singing. As a participant in the chorus, students will demonstrate their skill development by presenting choral programs throughout the school year. As a participant, you are required to attend all program rehearsals and performances.

VOCAL MUSIC: ADVANCED CHOIR

Suggested Grade Level 7/8

Length: 1 Semester or Full Year

A semester-based audition choir, Advanced Chorus is for those students whose skills go beyond the basics. This course allows for continuity in learning more complex musical concepts, while still focusing on becoming independent musicians through sight reading practice. Higher expectations for ability and technique will be applied, with students in Advanced Chorus performing in not just the Veteran's Day, Holiday, and End of Year concert, but also in ISSMA competition and the elementary school tours. Offering this course on a semester basis allows students to continue choir despite other year-long class commitments, and helps with continuity between middle school and high school should a student wish to participate in high school choir. Students electing to take Advanced Chorus for one semester will still need to commit to all performances across both semesters, and will be provided with rehearsal materials and opportunities outside of class time to rehearse with others. This course can also be taken all year.

EXPLORING MUSIC: MUSIC TECHNOLOGY

Suggested Grade Level 7/8

Length: 9 Weeks

A quarterly class that explores the vast array of professions those with a music technology degree can end up in. From radio advertising to professional consultation, this project-based course offers many creative opportunities, and provides a deep dive into the workings of GarageBand.

PROJECT LEAD THE WAY

PLTW: DESIGN & MODELING

Suggested Grade Level: 7/8

Length: 9 Weeks

PLTW: Design and Modeling allows students to apply the design process to solve problems and produce 3D printed solutions. They work in teams to design and build various engineering challenges including the popular wooden puzzle cube.. Using Autodesk design software, students create a virtual image of their designs.

PLTW: AUTOMATION & ROBOTICS

Suggested Grade Level: 7/8

Length: 9 Weeks

PLTW: Automation and Robotics allows students to learn about mechanical systems, energy transfer, machine automation, and computer control systems. Race your Vex dragster, program your robot, and compete in a balloon demo derby-this class is full of robotic action. Students use the VEX Robotics platform to design, build, and program real-world automated objects such as traffic lights and robotic arms.

PLTW: MEDICAL DETECTIVES

Suggested Grade Level: 7/8

Length: 9 Weeks

PLTW: Medical Detectives allows students to play the role of real-life medical detectives as they investigate how to measure and interpret vital signs, and learn how the systems of the human body work together to maintain health. They solve medical mysteries through hands-on projects and labs including the brain dissection and a study of how diseases spread.

PLTW: COMPUTER SCIENCE FOR INNOVATORS AND MAKERS

Suggested Grade Level: 8

Length: 9 Weeks

PLTW: Computer Science for Innovators and Makers allows students to discover computer science concepts and skills by creating personally relevant, tangible, and shareable projects. Throughout the unit, students will learn about programming for the physical world by blending hardware design and software development. They will design and develop a physical computing device, interactive art installation, or wearable, and plan and develop code for microcontrollers that bring their physical designs to life.

PLTW: APP CREATOR

Suggested Grade Level: 8

Length: 9 Weeks

PLTW: App Creators allows students to create their own apps for fun or profit. Using the MIT App Inventor platform, they will plan, code, and troubleshoot various types of apps, including games, educational reference apps, and simple databases. They will learn how their favorite apps work, and explore the ever-changing landscape of mobile technology.

VISUAL ARTS

VA: ART IN MOTION

Suggested Grade Level 7/8

Length: 9 weeks

This course is all about you and motion in artwork and how to create it. This course is a mix of 2D and 3D art works in a variety of media. You will learn design methods and mixed media. This course is all about you!

VA: ART BASICS

Suggested Grade Level: 7/8

Length: 9 Weeks

This course will cover the foundation and fundamentals of art and design. You will create 2-dimensional artwork, learn color theory, drawing and painting techniques, how to create the illusion of depth, and negative and positive space.

VA: 2-D ART

Suggested Grade Level: 7/8

Length: 9 Weeks

Through this course you will create projects using a variety of color media and design. Projects will include drawing, design, painting, glue, colored pencil, chalk or oil pastel, printmaking(stamping). We will discuss the elements and principles of design and will cover a variety of 2-dimensional artwork.

VA: 3-D ART

Suggested Grade Level: 7/8

Length: 9 Weeks

This course will cover creating a variety of 3-dimensional artwork. You will learn how to build 3D objects through the sculpture of paper, clay and other 3D materials.

VA: ADVANCED ART

Suggested Grade Level: 8

Prerequisite: Minimum of one art class

Length: Full Year

Advanced Art is a full-year class for 8th-grade students who excel in art. A portfolio of student's work, teacher recommendation, and/or interview will be required in order to be admitted to the class. Students will explore a variety of media and activities related to art history and art appreciation. Participation in school and community activities related to art will also be incorporated. Art school and career paths relating to art will be discussed.

WORLD LANGUAGES

EXPLORING SPANISH

Suggested Grade Level: 7/8

Length: 9 Weeks

This course will allow students to explore the variety of cultures connected to the Spanish language. Through hands-on activities, students will learn survival language skills and build cultural knowledge.

EXPLORING FRENCH

Suggested Grade Level: 7/8

Length: 9 Weeks

This course will allow students to explore the variety of cultures connected to the French language. Through hands-on activities, students will learn survival language skills and build cultural knowledge.

EXPLORING GERMAN

Suggested Grade Level: 7/8

Length: 9 Weeks

This course will allow students to explore the variety of cultures connected to the German language. Through hands-on activities, students will learn survival language skills and build cultural knowledge.

WORLD LANGUAGES (continued)

SPANISH I

Credit: Eligible to earn two (2) high school credits

Length: Full Year

Spanish I, a course based on *Indiana's Academic Standards for World Languages*, introduces students to effective strategies for beginning Spanish language learning, and to various aspects of Spanish-speaking culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products, and perspectives of Spanish-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding Spanish language and culture outside of the classroom. Credits: A two-credit course; fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma. Students in Level 1 course must have at least a C each semester in order to advance to Level 2.

SPANISH FOR HERITAGE SPEAKERS I

Credit: Eligible to earn two (2) high school credits

Prerequisite: High proficiency in oral Spanish; Must have one of the following: an interview with the Heritage teacher or a recommendation from another Spanish teacher

Length: Full Year

Spanish for Heritage Speakers is designed for native Spanish Speakers who are proficient speakers of the Spanish Language. The purpose of the course is to improve literacy, grammar terminology and public speaking skills in the Spanish language. The students of this course will have an opportunity to increase their vocabulary and writing skills as well as knowledge of Spanish Literature. This is a class specifically for native speakers who are looking to better themselves in their home language.

WORLD LANGUAGES (continued)

FRENCH I

Credit: Eligible to earn two (2) high school credits

Length: Full Year

French I, a course based on *Indiana's Academic Standards for World Languages*, introduces students to effective strategies for beginning French language learning, and to various aspects of French-speaking culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products, and perspectives of French-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding French language and culture outside of the classroom. Credits: A two-credit course; fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma. Students in Level 1 course must have at least a C each semester in order to advance to Level 2.

GERMAN I

Credit: Eligible to earn two (2) high school credits

Length: Full Year

German I, a course based on *Indiana's Academic Standards for World Languages*, introduces students to effective strategies for beginning German language learning, and to various aspects of German-speaking culture. This course encourages interpersonal communication through speaking and writing, providing opportunities to make and respond to basic requests and questions, understand and use appropriate greetings and forms of address, participate in brief guided conversations on familiar topics, and write short passages with guidance. This course also emphasizes the development of reading and listening comprehension skills, such as reading isolated words and phrases in a situational context and comprehending brief written or oral directions. Additionally, students will examine the practices, products and perspectives of German-speaking culture; recognize basic routine practices of the target culture; and recognize and use situation-appropriate non-verbal communication. This course further emphasizes making connections across content areas and the application of understanding German language and culture outside of the classroom. Credits: A two-credit course; fulfills a World Language requirement for the Core 40 with Academic Honors diploma or counts as a Directed Elective or Elective for any diploma. Students in Level 1 course must have at least a C each semester in order to advance to Level 2.

SKILLS CLASSES

MATH SKILLS

Suggested Grade Level: 7/8

Length: 9 Weeks

This course will develop and solidify basic math skills that will be required in future math courses. The course content is differentiated based on individual student need. Students will be placed into the course based on ISTEP and NWEA data. Students who struggle with math may also elect to take the course.

LANGUAGE ARTS SKILLS

Suggested Grade Level: 7/8

Length: 9 Weeks

This course will develop and solidify basic language arts skills that will be required in future language arts courses. The course content is differentiated based on individual student need. Students will be placed into the course based on ISTEP and NWEA data. Students who struggle with math may also elect to take the course.