This directory is designed to help you in planning a program of study that will best meet your needs and interests. Parents, teachers, and counselors will help you select and make decisions regarding particular courses for your student schedule.

Your directory contains complete information about course requirements and materials needed, as well as descriptions of each course being offered at McMillan. Read and carefully study the course offerings before registering. Course choices become commitments and it is difficult to make changes. Careful consideration now will help assure you of a program that satisfies your needs and interests.

The magnet center curriculum is designed to encourage exploration in a variety of subject areas. The curriculum at McMillan Magnet Center reflects the infusion of multicultural nonsexist educational material consistent with the philosophy adopted by the Board of Education.

We hope this directory will prove an effective tool in selecting your plan of study. The courses you select in middle school are most important to your future goals and endeavors.

Dr. Jeaneen Talbott
Principal

Mr. Andrew Havelka
Assistant Principal

Mr. Deondre Jones
Assistant Principal

Mrs. Jenelle Pritchard
Dean of Students

Omaha Public Schools does not discriminate on the basis of race, color, national origin, religion, sex, marital status, sexual orientation, disability, age, genetic information, citizenship status, or economic status in its programs, activities and employment and provides equal access to the Boy Scouts and other designated youth groups. The following individual has been designated to address inquiries regarding the non-discrimination policies: Superintendent of Schools, 3215 Cuming Street, Omaha, NE 68131 (402-557-2001).

Las Escuelas Públicas de Omaha no discriminan basados en la raza, color, origen nacional, religión, sexo, estado civil, orientación sexual, discapacidad, edad, información genética, estado de ciudadanía, o estado económico, en sus programas, actividades y empleo, y provee acceso equitativo a los “Boy Scouts” y a otros grupos juveniles designados. La siguiente persona ha sido designada para atender estas inquietudes referentes a las pólizas de no discriminación: El Superintendente de las Escuelas, 3215 Cuming Street, Omaha, NE 68131 (402-557-2001).

Visit our website at http://www.mcmillan.ops.org
# Program Planning Worksheets

Before registration, carefully review the program of study and course descriptions in this handbook and plan a program with your counselor and parents. The sequence of required courses has been outlined on the worksheet provided on this page. You will want to add the elective courses you choose.

## SIXTH GRADE Tentative Schedule

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<th>A</th>
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<tr>
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<tr>
<td>3</td>
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<tr>
<td>5</td>
<td>Social Studies/Language Arts</td>
<td>Science</td>
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<tr>
<td>7</td>
<td>Art (Graphic Design/Architecture) (1 Quarter) Project Lead The Way (1 Quarter)</td>
<td>Music (Chorus, Band, or Strings)</td>
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<td>8</td>
<td>Computer Applications (1 Semester)</td>
<td>Physical Education</td>
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## SEVENTH GRADE

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<td>Math (3 levels)</td>
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<td>Reading/Spanish/H Special Projects</td>
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## EIGHTH GRADE

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## ELECTIVES

Students select elective courses to fill their remaining schedule. They may choose one of these options: 1) full year electives, 2) one semester electives, or 3) a combination of full year electives and one semester electives.
PROMOTION GUIDELINES

For promotion from the seventh to eighth and the eighth to ninth grades, students must earn a minimum of 5 credits per semester.

⇒ A student can earn 1 credit for passing a semester class.
⇒ At least 2 credits its must be from Math, Science, Language Arts or Social Studies.

SEVENTH GRADE ELECTIVE COURSE DESCRIPTIONS

Honors Special Project 7
Length: All year
Teacher Recommendation
This course offers a wide variety of projects designed to challenge gifted students. These projects require higher level thinking skills, problem solving, communication and research skills, leadership and creativity. Both during class and after school, students may also engage in preparation for various competitions including Future Probe, Knowledge Masters, History Day, and State Science Olympiad. Students receive an honors grade.

Art 7
Length: One semester
Throughout this course, students will experience a wide variety of artistic materials and examine the artistic communication and expression of identity by several artists, past and present. Aesthetic theories of Expressionism and Imitationalism will also be studied in depth. As they do so, they will be creating their own artwork about personal identity.

NOTE: Enrollment in any music class requires mandatory participation in our concerts, which are held in the evening in December and in May in our auditorium. Additional performances may be scheduled.

Chorus 7
Length: One semester
Chorus 7 is available to seventh grade students who have special interests and abilities in choral singing. Vocal skills are introduced through appropriate unison, two and three-part singing. Musical independence is encouraged through increasing emphasis on musical notation. Performance opportunities are an extension of the classroom experience.

Intermediate Band 7
Length: All year
Teacher Recommendation
Materials Needed: Instrument
This course is offered to seventh grade students who began instrumental music instruction in their respective elementary schools or for eighth grade students who began instrumental music in seventh grade beginning band. Instrumental technique and musical understanding focus on the second volume of standard instrumental studies and appropriate band arrangements. Performance is included as an extension of the classroom activities.

Intermediate Strings
Length: All year
Teacher Recommendation
Materials Needed: Instrument
This course is offered to seventh and eighth grade students who have successfully completed several years study. Instrumental technique and musical understandings focus on standard string method studies and appropriate string orchestra selections. The instrumentation includes violin, viola, cello and string bass. Students with previous instrumental experience may begin changeover instruction on the low string instruments. Performance may be included as an extension of classroom activities.
SEVENTH GRADE MAGNET ELECTIVE COURSE DESCRIPTIONS

Honors Enrichment Math 1
Length: One Semester
This course is designed to prepare 7th and 8th grade students for mathematics competitions. Offered 2nd semester, students will prepare for the MathCounts competition and a national on-line competition. The focus this semester is on problem solving and mathematical explorations. Students will work on material that supercedes any coursework available to middle school students. Students will be required to complete projects to earn credit for the course.

Honors Enrichment Math 2
Length: One Semester
This course is designed to prepare 7th and 8th grade students for mathematics competitions. Offered 2nd semester, students will prepare for the MathCounts competition and a national on-line competition. The focus this semester is on problem solving and mathematical explorations. Students will work on material that supercedes any coursework available to middle school students. Students will be required to complete projects to earn credit for the course.

Music Technology 1
Length: One Semester
Prerequisite: Keyboarding
This course is designed for students interested in music and its related computer applications. No previous experience in computers or music is necessary. Students will explore electronic musical instruments, computer-assisted instructions, MIDI sequencing and music notation.

Technology and Living 7
Length: One semester
This course is a unique exploratory course for 7th students. A blend of innovative units from both the Industrial Technology and Family and Consumer Science curriculum are taught by staff from either discipline. Students are provided an opportunity to investigate a number of activities based on learning units in a state-of-the-art laboratory. Pairs of students work cooperatively through a seven-day Technology and Living Unit. Students independently choose from areas such as computer-aided design (CAD), clothing, structures, foods, lasers, housing, electricity/electronics, consumerism, robotics, childcare, research and design, and family.

PLTW Introduction to Architecture and Engineering Design
Length: One Semester
This pre-engineering course is an introduction to architecture, sketching skills, and drafting tools. Students will learn about the process of architecture, different architectural styles, as well as, careers associated with architecture and computer-aided design. Students will create virtual three-dimensional models of homes by learning to use computer-aided design and drafting (CADD) software. Students will work together to build a scaled, physical model of a home. This course is recommended for pre-engineering (PLTW) students or any student interested in applied mathematics and engineering.

PLTW Flight and Space
Length: One Semester
The exciting world of aerospace comes alive through Flight and Space. Students explore the science behind aeronautics and use their knowledge to design, build, and test an airfoil. Custom-built simulation software allows students to experience space travel.
**PLTW Medical Detectives**

**Length: One Semester**

Medical Detectives (MD) explores the biomedical sciences through hands-on projects and labs that required students to solve a variety of medical mysteries. Students investigate medical careers, vital signs, diagnosis and treatment of diseases, as well as human body systems such as the nervous system. Genetic testing for hereditary diseases and DNA crime scene analysis put the students in the place of real life medical detectives.

**PLTW Honors Science of Technology**

**Length: One Semester**

This 7th grade pre-engineering honors course explores the science of electricity, the movement of atoms, circuit design, and sensing devices. Knowledge and skills in basic circuitry design and explore the impact of electricity in everyday life are acquired. Students study the mechanics of motion, the conversion of energy, and the use of science to improve communication. Prerequisite: Concurrent with Algebra.

**EIGHTH GRADE ELECTIVE COURSE DESCRIPTIONS**

**Honors Special Project 8**

**Length: Semester**

This course offers a wide variety of projects designed to challenge gifted students. These projects require higher level thinking skills, problem solving, communication and research skills, leadership and creativity. Both during class and after school, students may also engage in preparation for various competitions including Future Probe, Knowledge Masters, History Day, and State Science Olympiad. Students receive an honors grade.

**Journalism 1-2**

**Length: All Year**

This one-semester project-based course will produce a monthly television magazine show for Buffett. The course will provide students with the opportunity to further develop skills in video capture and editing, and all aspects of producing videos for the Buffett television network. Students will create and edit graphics, sound, and special effects to be incorporated into video productions. Students will be required to work independently and in small teams to produce commercials, public service announcements, and short features. Students will create storyboards, write and rewrite shooting scripts, record and edit projects. Prereq: C or above in most recent English class or with journalism adviser recommendation.

**Spanish 1-2**

**Length: All Year**

This course in World Languages at the first-year level stresses interpretive, presentational, and interpersonal communication abilities to develop survival skills in the target language. Students become aware of the personal and economic opportunities that knowing a second language will bring them and how that knowledge will enable them to function better both in the United States and globally. They also begin to develop an awareness and appreciation of the various cultures associated with that language as well as the impact these cultures have made on their own community, country, and world.

**Art 8**

**Length: One semester**

This course allows students to be innovative and reflect on their own experiences as many American artists have and do today. American artists were and are on the forefront of shaping America's identity through recording the human experience in innovative ways. Throughout this course, students will continue to develop their artistic voice and style and explore how they do and will play a part in society. Students will examine art and artists throughout American history focusing on America's diversity and influence. Aesthetic theories of Instrumentalism, Expressionism and Formalism will be studied as well.
NOTE: Enrollment in any music class requires mandatory participation in our concerts, which are held in the evening in December and in May in our auditorium. Additional performances may be scheduled.

**Chorus 8**
**Length: One semester**
Chorus 8 is available to eighth grade students who have special interests and abilities in choral singing. Choral music is introduced in two and three parts that include bass clef participation. Vocal emphasis is placed on the introduction of the male changing voice and greater extension of all voice ranges. Performance opportunities including the All City Music Festival are an extension of the classroom experience.

**Advanced Band**
**Length: All year**
**Materials Needed: Instrument**
This course is offered to seventh and eighth grade students with advanced abilities secured through several years of instrumental music participation. Music introduced includes technique studies and selected concert music with full instrumentation appropriate to the classes and ability. Membership is achieved by the recommendation of the instructor. Performance is included as an extension of the classroom activities.

**Advanced Strings**
**Length: All year**
**Materials Needed: Instrument**
This course is offered to eighth grade students who have demonstrated advanced ability in playing a string instrument. Technique studies and selected concert music advance both technical and musical understandings. The instrumentation includes violin, viola, cello and string bass. Membership is achieved by the recommendation of the instructor or successful completion of Intermediate Strings. Performance is included as an extension of the classroom activities outside of the school day.

**EIGHTH GRADE MAGNET ELECTIVE COURSE DESCRIPTIONS**

**Honors Enrichment Math 1**
**Length: One Semester**
**Teacher Recommendation**
This course is designed to prepare 7th and 8th grade students for mathematics competitions. Offered 2nd semester, students will prepare for the MathCounts competition and a national on-line competition. The focus this semester is on problem solving and mathematical explorations. Students will work on material that supersedes any coursework available to middle school students. Students will be required to complete projects to earn credit for the course.

**Honors Enrichment Math 2**
**Length: One Semester**
**Teacher Recommendation**
This course is designed to prepare 7th and 8th grade students for mathematics competitions. Offered 2nd semester, students will prepare for the MathCounts competition and a national on-line competition. The focus this semester is on problem solving and mathematical explorations. Students will work on material that supersedes any coursework available to middle school students. Students will be required to complete projects to earn credit for the course.

**PLTW Medical Detectives**
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PLTW Introduction to Computer Science I
Length: One semester
Designed to be the first computer science course for students who have never programmed before, Introduction to Computer Science 1 (ICS-1) is the starting point for the PLTW Computer Science program. Students work individually and in teams to create simple apps for mobile devices using MIT App Inventor®. Students explore the impact of computing in society and the application of computing across career paths and build skills and awareness in digital citizenship and cybersecurity. Students model, simulate, and analyze data about themselves and their interests. Pre-requisite: must have taken and passed Computer Applications with a C or better.

PLTW Introduction to Computer Science II
Length: One semester
In ICS-2, students continue to explore the fundamentals and principles of the stimulating career path of computer science. Students collaborate to create and develop more advanced apps that integrate the collection of data for processing and sharing across different technologies using MIT App Inventor®. Students will continue explore the impact of computing and its effects on society and the world. They will also transfer their understanding of programming gained in App Inventor® to learn introductory elements of text-based programming in Python® to create strategy games and simulations. Pre-requisite: must have passed ICS-1 with a C or better.

PLTW Introduction to Architecture and Engineering Design
Length: One Semester
This pre-engineering course is an introduction to architecture, sketching skills, and drafting tools. Students will learn about the process of architecture, different architectural styles, as well as, careers associated with architecture and computer-aided design. Students will create virtual three-dimensional models of homes by learning to use computer-aided design and drafting (CADD) software. Students will work together to build a scaled, physical model of a home. This course is recommended for pre-engineering (PLTW) students or any student interested in applied mathematics and engineering.

PLTW Flight and Space
Length: One Semester
The exciting world of aerospace comes alive through Flight and Space. Students explore the science behind aeronautics and use their knowledge to design, build, and test an airfoil. Custom-built simulation software allows students to experience space travel.
PLTW Green Architecture
Length: One Semester
In a world of reduced resources and environmental changes, it is important to present the concept of “being green” to the next generation of designers and builders. In this unit, students are introduced to architectural plans, construction styles, alternative materials and processes, dimensioning, measuring and architectural sustainability. Students use a 3D architectural software program to create an environmentally friendly home using shipping containers.

PLTW Honors Automation & Robotics
Length: One semester
Prerequisite: Concurrent with Algebra or Geometry
This 8th grade pre-engineering honors course begins with students tracing the history and development of automation and robotics. Students learn about structures, energy transfer, machine automation, and computer control systems. Knowledge and skills are acquired in engineering problem solving while exploring requirements for careers in engineering. The course is completed by students working as a team to create and program an assembly line using Fischertecniks. Students taking Design and Modeling followed by Automation and Robotics will compete in the Society of American Military Engineers (SAME) Competition. Prerequisite: Concurrent with Algebra or Geometry.

PLTW Honors Design & Modeling
Length: One Semester
Prerequisite: Concurrent with Algebra or Geometry
This 8th grade pre-engineering honors course uses solid modeling as an introduction to the design process. Students using freehand sketching techniques and descriptive geometry, learn how to sketch components of a design in different views and create three-dimensional computer models. Using design briefs or abstracts, students create physical models and documentation to solve problems. Students taking Design and Modeling followed by Automation and Robotics will compete in the Society of American Military Engineers (SAME) Competition. Prerequisite: Concurrent with Algebra or Geometry.

Course Placement Appeals

All Secondary Omaha Public Schools offer procedures for appealing course placement (i.e. AP, Honors, IB, etc.). Each building may have specific forms and deadlines, however, the following general procedures shall apply:

Level One: Counselor, Curriculum Specialist, Assistant Principal/Data, or Principal
A student or parent with a course placement appeal may first discuss the matter with the counselor, or building administrator involved, with the object of resolving the matter informally.

Level Two: Assistant Superintendent of Curriculum, Instruction and Assessment
If the course placement appeal is not resolved at Level One and the individual still wishes to pursue the appeal, he/she may formalize the appeal in writing addressed to the Assistant Superintendent of Curriculum, Instruction and Assessment at 3215 Cuming Street, Omaha, NE 68131.

Level Three: Superintendent
If the appeal is not resolved at Level Two and the individual still wishes to pursue the appeal, he/she may formalize the appeal to the superintendent of schools after receiving a written response from the Assistant Superintendent of Curriculum, Instruction and Assessment.

These steps shall be taken in a timely manner so as to accommodate the registration of courses for the school year in question.