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Timberline Middle School

7th Grade Course Catalog

Sample Schedule:

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| --- | --- | --- |
| Period | Semester 1 | Semester 2 |
| 1 | Language Arts/Social Studies (Block)  (English 7/US History 1) | Language Arts/Social Studies (Block)  (English 7/US History 1) |
| 2 | Language Arts/Social Studies (Block)  (English 7/US History 1) | Language Arts/Social Studies (Block)  (English 7/US History 1) |
| 3 | Math | Math |
| 4 | Science | Science |
| 5 | PE | Health |
| 6 | Elective Choice | Elective Choice |

Sample Schedule: Music Elective

|  |  |  |
| --- | --- | --- |
| Period | Semester 1 | Semester 2 |
| 1 | Language Arts/Social Studies (Block) | Language Arts/Social Studies (Block) |
| 2 | Language Arts/Social Studies (Block) | Language Arts/Social Studies (Block) |
| 3 | Math | Math |
| 4 | Science | Science |
| 5 | PE | Health |
| 6 | Music Elective (Band, Orchestra, or Choir) | Music Elective (Band, Orchestra, or Choir) |

**7TH GRADE REQUIRED COURSES:**

**English 7 and US History 1 (BLOCK) - Required FULL YEAR**

English 7/ United States History 1, also known as Language Arts & Social Studies (LA/SS), is a year-long, two-period block class which integrates writing, reading, speaking, listening, presenting, and technology skills with the study of US history. The WA State K-12 Learning Standards (Common Core State Standards) are the basis for our English Language Arts program with emphasis on vocabulary development, grammar usage and sentence structure, as well as the writing process to develop argumentative, explanatory, and narrative essays. Students will analyze the elements of literature through three major book studies, short stories, a play adaptation, and poetry. Based on the LWSD Social Studies Standards, our United States history curriculum, Revolutionary War to Post-Civil War Reconstruction period, will focus on civics, economics, geography, cultural development, and human interaction with the environment. Using research skills and analysis of primary sources, students are challenged to think critically and provide evidence to support arguments. All writing assignments and projects will be assessed using Standards Based rubrics. In addition, students will be assessed on interpersonal skills, group work, performances, and summative tests.

NOTE: Depending on individual level and need, students who qualify may receive special education services in a general education LA/SS class (this will be determined by special education team).

**7th Grade Mathematics - Required FULL YEAR**

In this course students build on their understanding from 6th grade by focusing on four critical areas: (1) develop understanding of and applying proportional relationships; (2) developing understanding of operations with rational numbers (explain the rules for adding, subtracting, multiplying, and dividing with negative numbers) and working with expressions and linear equations; (3)solving problems involving scale drawings and informal geometric constructions, and working with two- and three-dimensional shapes to solve problems involving area, surface area, and volume; and (4) drawing inferences about populations based on samples. *District-adopted curriculum:* **Glencoe Math Course 2**

NOTE: Depending on individual level and need, students who qualify may receive special education services in a general education math class (this will be determined by special education team).

**Algebra 1 FULL YEAR**

***Prerequisite:*** *Meet or exceed the district algebra placement requirements.*

This course is a high school level algebra course that prepares students for State mandated testing required for high school graduation. Students should expect significant rigor because 6th grade students skip both 7th Grade Math and 8th Grade Math courses. There are concepts in both 7th and 8th Grade Math that are not taught to 6th graders. Students will have to master the 7th and 8th grade concepts while learning Algebra concepts. Learning what is taught in 7th and 8th grade, and Algebra, at the same time is challenging. Perseverance is an important component for success. The course focuses on five critical areas: (1) develop fluency writing, interpreting, and translating between various forms of linear equations and inequalities, and simple exponential functions, and using them to solve problems; (2) compare and contrast linear and exponential functions, translate between different representations, use function notation, and interpret arithmetic sequences as linear functions and geometric sequences as exponential functions; (3) using regression techniques to describe linear relationships quantitatively and make judgments about the appropriateness of linear models; (4) extend the laws of exponents to rational exponents, see structure in and create quadratic and exponential expressions, and solve equations, inequalities and systems of equations involving quadratic expressions; and (5) compare quadratic, linear, and exponential functions to model phenomenon. They also identify the real solutions of quadratic equations as the zeroes of a related quadratic function and expand their experience to more specialized functions – absolute value, step, and those that are piecewise-defined.

**7th Grade Science - Required FULL YEAR**

This inquiry-based science course builds on Physical, Earth and Life Science concepts and processes introduced in grades K-6. Physical, Earth, and Life Science are investigated with increasing depth where students plan and conduct their own experiments. Content topics include energy and matter, climate change, planet Earth, life and reproduction of organisms, and fields of force and non-contact forces. We follow the Next Generation Science Standards utilizing crosscutting concepts, and science/engineering practices, embedded in the disciplinary core ideas.

NGSS Cross-Cutting Concepts in Science include:

* Patterns
* Cause and Effect
* Scale, Proportion, and Quantity
* Systems and Systems Models
* Energy and Matter
* Structure and Function
* Stability and Change

NGSS Science and Engineering Practices:

* Asking Questions and Defining Problems
* Developing and Using Models
* Planning and Carrying Out Investigations
* Analyzing and Interpreting Data
* Computational Thinking
* Constructing Explanations and Designing Solutions
* Engaging in Argument from Evidence
* Obtaining, Evaluating, and Communicating

**7th Grade PE - \*Required SEMESTER**

In Sports and Fitness, students develop competence in motor skills for a variety of team and individual sports. Students will learn to demonstrate proper sportsmanship and etiquette. Students will set fitness goals, track progress, and participate in activities that improve health-related and skill-related fitness. This class will also cover learning to work out properly using the five components of fitness.

**Personal Fitness (7th and 8th Grade**) - \*meets PE requirement  **SEMESTER**

In Personal Fitness students learn to work out properly, experience fitness in fun, exciting new ways, set own personal fitness goals and learn how to reach them. Each class period will be organized to meet multiple health and skill related fitness components (circuit training, core, flexibility, muscular strength, cardio activities).

**7th Grade Health - Required SEMESTER**

Health is a one semester class designed to better inform students of issues and choices involving health. A strong emphasis is placed on personal responsibility and healthy choices that promote lifelong wellness. The following topics will be presented and discussed during the semester: fitness and movement, nutrition and healthy food selection, human growth and development including peer pressure and stress management, community and consumer health, disease prevention and personal health and hygiene, substance use and abuse including refusal skills, HIV & AIDS, and personal safety including first aid.

**7TH GRADE ELECTIVES:**

**Leadership 1 (7th and 8th Grade) SEMESTER**

Leadership 1 is a one semester class for responsible and innovative seventh and eighth graders who wish to make a difference at Timberline Middle School.  Students are responsible for organizing and helping with student recognition.  The class is based on the book titled, *The World’s Most Powerful Leadership Principle.* Students will gain important communication skills, the qualities of strong teams, and strategies to build their character.  In additions, students will learn important key ideas to gain influence and have fun serving your school.  Students do not need to turn in an application to be in Leadership 1.

**Design and Modeling (6th, 7th, and 8th Grade) SEMESTER**

Students discover the design process and develop an understanding of the influence of creativity and innovation in their lives. Using Autodesk® design software, students create a virtual image of their designs and produce a portfolio to showcase their innovative solutions. Demonstrate and expand your skills in leadership, critical thinking and problem solving. Learn about engineering, manufacturing, basic woodworking and workplace readiness skills while incorporating academic concepts and the process of design and developments. Instruction includes sketching, measurement, safety, and use of common woodworking tools and machines. Fee $15

**Green Sustainable Design (6th, 7th and 8th Grade) SEMESTER**

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. Students use what learn to design and model alternative energy sources, as well as evaluate options for reducing energy consumption. Student learn how to apply green concepts to the fields of architecture and construction. They explore dimensioning, measuring, and architectural sustainability and apply what they have learned to design affordable housing units using AutoDesk 3D architecture design software. Fee $15

**Medical Detectives and Forensic Science (7th and 8th Grade) SEMESTER**

Medical Detectives: Students plat the role of real-life medical detectives as they collect and analyze medical data to diagnose disease. They solve medical mysteries through hands-on projects and labs, measure and interpret vital signs, dissect a sheep brain, investigate disease outbreaks, and explore how a breakdown within the human body can lead to dysfunction. Fee $25

**Automation and Robotics (7th and 8th Grade) SEMESTER**  
Students learn about the history and impact of automation and robotics as they explore mechanical systems, energy transfer, machine automation, and computer control systems. Using the VEX Robotics® platform, students apply what they know to design and program traffic lights, robotic arms and more. Participate in a variety of robotic projects as you experience the jobs of a Mechanical, Electrical and Computer Engineer. Apply the design process as you use industry-leading technology, learn sketch techniques, measuring and dimensioning, and computer modeling fundamentals necessary to solve an engineering problem. Design mechanical and automated systems that meet desired needs within realistic constraints. Topics of study include: Programming Scribbler Robots with Python Computer Programming language, 3-D design and modeling using Autodesk Inventor, and programming and building LEGO NXT robots using the NXT-G graphical interface. Students taking this course will have home access to Autodesk Inventor free of charge. Fee $15

**Flight and Space (7th and 8th Grade) 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. This course prepares individuals to apply basic engineering principles and technical skills in support of engineers and other professionals engaged in developing, manufacturing, and testing aircraft, spacecraft, and their systems. Includes instruction in aircraft/spacecraft systems technology; design and development testing; inspection and maintenance procedures, instrument calibration, test equipment operation; maintenance and report preparation. Fee $15

**App Creators and Game Design (7th and 8th Grade) SEMESTER**

This unit will expose students to computer science as a means of computationally analyzing and developing solutions to authentic problems through mobile app development. It will also convey the positive impact of the application of computer science to other disciplines and to society. Students will learn programming and creative skills to design and develop various 2-dimensional video games. Fee $15

**Drawing and Painting (6th, 7th and 8th Grade) SEMESTER**

Discover and develop the artist in you! Modeling (shading with respect to a light source) and color theory are emphasized in drawing and painting projects. Linear and atmospheric perspective techniques are also taught to create an illusion of depth in any subject matter. Proportion of facial features and rotation of the human head is explored and applied to portraits. Learn how to draw what you see and what you can imagine. *Lab Fee of $25*

**Ceramics: (7th and 8th Grade) SEMESTER**

This introductory ceramic course is intended for those of you who have some experience drawing but want to expand your artistic abilities with 3-dimensional design. This class will focus on studio work leading to the completion of five projects. You will learn basic ceramic hand-building methods, ceramic glazing procedures, different decorating techniques and ceramic technology and terms. *Lab Fee $30.00*

**Drama (6th, 7th, and 8th Grade) SEMESTER**

Do you enjoy acting, telling a story, or entertaining others? This class is for students who enjoy performing in front of peers. It is designed to help students’ express thoughts, feelings and ideas through various learning experiences. Students will participate in individual and group exercises with monologue, improvisation, storytelling, skits and more.  In addition to onstage skills, students will also develop knowledge of stage crew activities, including props and costume.

**Dance (6th, 7th, and 8th Grade)**  **SEMESTER**

We approach dance from a concept-based perspective. Rather than focus on traditional techniques, we teach Modern dance through the elements of Space, Time, Body, Effort, Movement, and Form. Through this conceptual approach within areas of jazz, ballet, modern, and lyrical dance, students learn technique, improvisation, choreography, community, somatic awareness, and musical awareness. As other techniques and styles are introduced through special programs, we explore how they support the above areas of emphasis.

**Personal Fitness (7th and 8th Grade**)  **SEMESTER**

In Personal Fitness students learn to work out properly, experience fitness in fun, exciting new ways, set own personal fitness goals and learn how to reach them. Each class period will be organized to meet multiple health and skill related fitness components (circuit training, core, flexibility, muscular strength, cardio activities).

**Team Sports (7th & 8th Grade) SEMESTER**

The Team Sports class provides the opportunity for all students to be successful regardless of their personal fitness or skill level. Sports and games are presented in a way that encourages positive attitudes, good sportsmanship and great effort on the part of the students. This class will provide knowledge and activities which explore fitness at a team level. Students will learn fitness concepts and team sports that promote a lifelong healthy lifestyle. Aerobic exercise will also play an important role in the team sports class. Every Wednesday the students will be running and graphing their results and progress with the emphasis on improvement. Students will be required to learn the rules, scoring and other important aspects of each sport so they can play and officiate their own games.

**Food Science (7th and 8th Grade) SEMESTER** Throughout our lives we develop a relationship with food! As we develop our skills in the kitchen, we will be able to become more creative in the food dishes we to choose to prepare. In food science you will have the opportunity to take your previous skills to the next level by creating and preparing your own meals. We will investigate bacteria in food and how to prevent it, study nutrition and develop healthy recipes, and examine the science behind baking. All the recipes we create in class will be collected into a take-home cookbook at the end of the semester! There is a $25.00 materials fee for this class.

**International Foods (7th and 8th Grade) SEMESTER** If you would like to travel the world together—tasting the different kinds of foods from many cultures, this is the class for you! This semester course is designed for the open-minded student who wishes to prepare a variety of foods originating from all over the world. Various regions of the world will be covered including North & South America, Europe, South East Asia, and the Mid-East among others. Students will work collaboratively to study customs and food habits, agriculture around the world, and cooking techniques unique to different countries. Guest Chef’s will be invited to share specialized ethnic cooking styles with us. Sign up for this class if you want to enhance your culinary pallet! There is a $25.00 materials fee for this class.

**Farm to Table- Food Sustainability (7th and 8th Grade) SEMESTER**

Join Farm to Table and learn how to grow your own food and cook delicious meals with it! We will explore the effects of food growth on the environment and our planet. Topics of study will include organic farming and GMO’s, agriculture and food policy, climate change in relation to food production, use of technology in food growth and cooking sustainably. Students will grow fruits, vegetables, and herbs with the purpose of cooking well-balanced meals. We will visit a local farm and learn what food production means in our community. This class will be primarily vegetarian, all diets are welcome. There is a $25.00 materials/field trip fee for this class.

**Concert Choir (6th, 7th and 8th Grade) FULL YEAR**

If you can talk, you can sing! Signing up for this course will help you use your voice to develop a love for singing as well as your self-confidence as a singer. Join this group of students who come together to sing, laugh, and learn, creating an unforgettable musical experience daily. If you were in choir last year, come join another fun-filled year in Chorus! Your experience is SO valuable in making this group great and taking it to the next level. (Students have performing opportunities in large group concert, solo, and small ensemble music.) Beyond music, this class helps prepare you to perform/communicate in front of others and gain confidence in being on stage.

Requirements

• Evening concert attendance is required

• ASB membership

• Daily at home practice

• Participation in fundraisers may be necessary to help fund field trips

**Orchestra (6th, 7th, and 8th Grade) FULL YEAR**

Students in String Orchestra will learn more advanced techniques on their instrument in a class setting. Emphasis will be on ensemble playing as well as building on the student’s individual skill level. Regular concerts and regular individual practice will be part of the curriculum. It is highly recommended that any student who chooses to begin orchestra at the middle school level take private lessons.

Requirements

• Evening concert attendance is required

• ASB membership

• Daily at home practice

• Participation in fundraisers may be necessary to help fund filed trips

• Essential Elements for Strings Book 2

**Concert Band (6th, 7th, and 8th Grade) FULL YEAR**

For students who have had 1-2 years of band experience. Music read­ing and instrumental rehearsal and performance skills are improved by focusing on several method books and appropriate literature in various musical styles. We will work out of Essential Elements for Band Books 1 and 2. Students also evaluate recorded performances of themselves and others through written concert reviews, developing writing skills. We have several performances in the school and com­munity, as well as festival appearances. Marching band experience is offered.

Requirements:

• Regular practice

• Provide own instrument or rent from music shop or school (depending upon instrument).

•Participation in evening concerts is required.

All music students are required to purchase an ASB card.

**Symphonic Band (7th and 8th Grade) FULL YEAR**

Prerequisites: Successful completion of Concert Band. 2-3 years of instrumental expe­rience or director’s permission. This class provides continued focus on developing reading strategies and performance skills through increasingly advanced literature, solo and chamber music, and numerous performance opportunities. We will work out of Essential Elements for Band Book 2, and Standards of Excellence Book 3, and will have completed the common scales. Performance evaluations through written reviews and rubric-scored tests help students develop self-evaluation and strategize for improvement. Marching Band and small group experience is offered.

Requirements:

• Provide own instrument or rent from music shop or the school (depending upon instrument).

• Participation in evening concerts and festivals is required.

• All music students are required to purchase an ASB card.

**Peer Tutor in the Transition Program (7th and 8th Grade) SEMESTER**

Student Aides support student learning in the Transition Program. Designed for patient and caring students who wish to gain skills in serving as positive role models and peer mentors. Limited aide positions are available, if there are more students than the class can accommodate a lottery will be used to determine placement.

**Study Skills (7th and 8th Grade) SEMESTER**

In Study Skills students will focus on learning skills that will help them maximize their learning. Strategies that will be focused on include: organizational skills, goal setting, note taking, calendaring, prioritizing, test taking skills and self-advocacy. Student use of electronic academic tools will also be taught. This includes the use of PowerSchool and accessing online grade-book data. This class is for students that are recommended for it by Timberline staff members.

**Safety Net (6th, 7th and 8th Grade) SEMESTER**

Prerequisite: Qualifying assessment scores and teacher recommendation

Safety Net is a one or two semester class for qualified students needing academic support and remediation in reading, writing, and/or math. Students will receive extra help on their assignments, projects, and test preparation, as well as targeted instruction in reading, writing, and/or math. The class will include small group instruction, peer tutoring, and one-on-one assistance.

*NOTE: This class is based on score results of state testing and/or academic grade performance, some students may be placed in an intervention support class such as Safety Net or Study Skills, in lieu of elective class requests.*

**INTERPERSONAL SKILLS (6th, 7th and 8th Grade) SEMESTER**

This class is for Special Education students. This class provides specially designed instruction (SDI) for students who qualify in social skills, social/emotional skills, behavior or organization. Through group and individual discussion, Social Behavior Mapping, and strategy instruction, students learn the subtle nuances of social interaction, the Hidden Curriculum, perspective taking, self-regulation, and the unwritten rules of social relationships. They will also learn strategies on how to organize and manage themselves effectively.  This time will be personalized to fit the needs of the students to ensure it is meaningful and addressed their individual IEP goals.