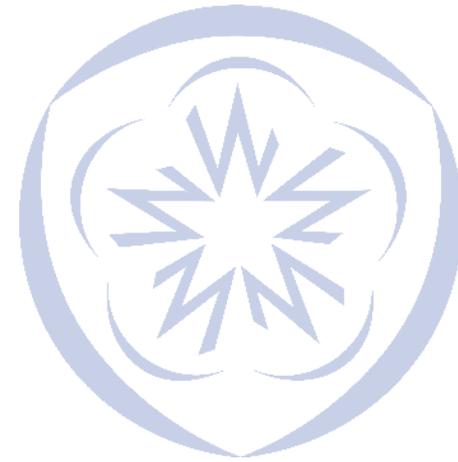




WALDORF
SCHOOL
of GARDEN CITY



*High School
Curriculum Guide*



Our Mission Statement

The Waldorf School of Garden City educates children to meet the world with purpose, gratitude and respect. Our curriculum, inspired by Rudolf Steiner, progresses in accordance with child development, awakening students to the experience of knowledge, strengthening their sense of moral responsibility, and empowering them to act with courage and conviction. The School's aim is to graduate a diverse group of young men and women distinguished by the scope and acuity of their minds as well as the depth and integrity of their character.



Freshman Year

MAIN LESSONS

AMERICAN LITERATURE

Students begin by reading literature of Native Americans, African Americans and Immigrants, each group contributing to America's diversity. They explore America by reading literature from New England, the Mid-Atlantic States, the Midwest, the West Coast and the South. Students must participate in a storytelling project, modernize a poem from the colonial era, and write a series of compositions on the short stories, poetry and selections of novels covered in the class. Authors and poets covered in this seminar include Nathaniel Hawthorne, Mark Twain, Edgar Allan Poe, John Steinbeck, Ernest Hemingway, William Faulkner, Willa Cather, Flannery O'Connor, Phyllis Wheatley, Emily Dickinson, Maya Angelou, Langston Hughes, Walt Whitman, Robert Frost, Robert Hayden, and Theodore Roethke.

BIOLOGY: HUMAN SENSES

Vision, hearing, smell, taste, and touch. Students purposely use these five senses in various experiments and projects to develop an awareness of the physical body and how each individual interacts with the world. Students are also challenged to question the information gathered by the senses through optical illusions. With an emphasis on the eye and ear, this seminar focuses on the study of the structure and function of the nervous system and sense organs. Laboratory activities are an integral part of this class.

HISTORY THROUGH ART

The art of the Stone Age, ancient Egypt, ancient Greece, ancient Rome, the early Christians, the Renaissance in northern and southern Europe, the Baroque and the 19th and 20th Centuries provide a rich cultural lens for historical study. Students learn to see great works of each community as symbolic of the consciousness of the people in a particular place at a given time.

HISTORY OF DRAMA

Students study the origins of Theatre, Classical Greek Theatre, Medieval Theatre and Shakespeare by reading Iphigenia in Aulis and Romeo and Juliet as well as contemporary selections. They deconstruct the plot lines and conflicts through games, discussion, performance, and writing. This seminar culminates in a dramatic presentation of various scenes from these plays.

HUMANITY AND IDEALISM

This seminar creates a cognitive-experiential learning environment in which students relate conceptual understanding to practical implementation. The students work in groups to learn first-hand the political and personal art of cooperation and compromise. Each team creates its own society that reflects the personal ideals of the individuals and the geographical, cultural, political and economic forces that shape

all societies. Knowledge, content, cooperation, and application of research process are emphasized through written assignments, research work, and oral presentations. As representatives of their society, students present their culture to the high school, parents, and faculty members during the last week of the seminar.

INTRODUCTION TO CHEMISTRY

An introduction to basic chemistry concepts that covers measurement, SI units, classes, phases, atomic structure, and the Bohr model. Students learn to quantify properties, structure, and composition of matter. Laboratory activities are an integral part of this class.

MODERN CHINA

A survey of the history of modern China, beginning in 1850 to the present day. The seminar begins with an overview of the Opium Wars, which brings China into international trade and the process of modernization. Students follow China's transformation from an imperial state to a republic and finally a communist nation. At the head of the People's Republic of China stands Mao Tse-Tung. The students study the policies and personality of the man who shaped present day China. Students read Balzac and the Little Chinese Seamstress by Dai Sijiem, a story of two city boys who are sent to a remote village to be "re-educated" during the Cultural Revolution.

US GOVERNMENT

This course gives students an introduction to the constitution and the basic principles that guided its construction. Students will study the three branches of American government and analyze landmark Supreme Court cases. Students also engage in several debates and discuss current events.

PHYSICS: THERMODYNAMICS

This course explores heat transfer, thermal expansion, temperature scales, changes of state, and measurement of heat in relation to everyday applications. In addition to understanding the ideas in a qualitative manner, mathematical relationships and functions are developed and used to quantify investigations.

YEAR-LONG CLASSES

BIOLOGY I

Topics of study include the endocrine system, cell structure, cell study techniques, theoretical and applied biochemistry, sexual reproduction, including prenatal and early childhood development, and Mendelian and molecular genetics. Particular emphasis will be given to biotechnology and bioethics.

ENGLISH I

Students begin the year reading an anthology of short stories and then a selection of poems. They then progress to novels such as *Animal Farm* by

George Orwell, *A Tale of Two Cities* by Charles Dickens and the play, *Our Town* by Thornton Wilder. Students write three to five-page papers answering a thesis question on the major literary works they have read. Students are also required to learn grammar, usage, sentence writing, composition, and vocabulary.

FOREIGN LANGUAGE I: FRENCH, GERMAN OR SPANISH

In the first year of high school foreign language classes, students engage in speaking, writing, reading and listening activities, and they are immersed in the culture, customs, grammar, stories and songs of the language they are studying. Emphasis is placed on conversation and clear, precise and articulate use of speech. Class skits and plays enhance written and oral proficiency.

LEADERSHIP SKILLS: RESEARCH/TECHNOLOGY

Students learn the skills necessary for success in researching topics for papers and presentations they will be expected to tackle in their freshman year. Units include work citation, plagiarism, organizational tools, and research methodology. Students are required to use online databases, evaluate internet websites, and develop skills on popular programs such as Microsoft Word, Power Point, and Microsoft Excel.

MATH IA: ADVANCED ALGEBRA

Specific subject areas of study include a review of elementary algebra, number systems and set notation, linear and absolute value functions, equations and inequalities, systems of linear equations, inequalities, nonlinear systems, radicals and complex numbers, quadratic functions, equations and inequalities, rational expressions and equations, and function notation. The graphing calculator is introduced and used frequently throughout the course.

MATH I: ALGEBRA

Specific subject areas of study include a review of elementary algebra, number systems and set notation, linear and absolute value functions, equations and inequalities, systems of linear equations, inequalities, nonlinear systems, radicals, quadratic functions, equations, rational expressions and equations, and function notation.

MATH IIA: ADVANCED GEOMETRY

This course develops geometry as a system of logical reasoning using clear definitions, postulates, theorems and corollaries to foster creative and critical thinking. Geometric elements, structure and relationships are presented and integrated with algebra, trigonometry, logic and arithmetic. Deductive reasoning is introduced and applied to geometry to develop formal mathematical proofs. The topics of congruence, parallelism, quadrilaterals, circles, similarity, areas, regular polygons, coordinate geometry and locus are studied from geometric, algebraic and graphic perspectives for the improvement of reasoning.

PHYSICAL EDUCATION

The ninth grade physical education curriculum includes units in soccer, volleyball, team handball, basketball and softball. During these units, students learn skills, terminology, and rules. They also apply their knowledge and skills to game situations. Fitness and cardiovascular activities are presented throughout the year. Safe playing techniques and sportsmanship are always emphasized.

ART BLOCKS

VISUAL ARTS

In the freshman year, the students work with artistic methods that help express moods of great contrast: pencil, black crayon, scratchboard and relief printing. The illusion of space and form in a drawing requires a vocabulary of tone description. The white of the paper is affected by a multitude of marks and textures as the students attempt to find the nuances of grays between the contrasts of black and white. Scratchboard technique demands a pace slow enough to reveal the image desired and yet dramatic enough to capitalize on the limitations of the medium. The presence of gray is illusionary, formed as the black coating is removed to reveal the white beneath. The creation of linoleum block prints builds on these expressive qualities of high contrast. A later exploration of relief carving in wood develops an understanding of the role light plays in sculpture medium and introduces a process also subtractive in nature but one which demands different skills and attention from the students.

FIBER ARTS

Students learn to knit a small stuffed toy made of commercial yarn. They experience the process of fabricating yarn by preparing raw sheep's wool for spinning, a process that includes washing, carding, and color blending various kinds of wool. Students spin the cleaned and combed wool into yarn on a drop spindle and later the spinning wheel. The handspun wool is made into a final product and presented at the final review.



CLAY

This course introduces the tools, techniques and processes used to create basic clay sculptures and vessels. Students utilize additive and subtractive methods including pinch, coil, hollowing, and slab construction. Form, texture and the fundamentals of glazing are explored. The course includes a survey of the history of clay sculpture and pottery and prominent artists in the field.

SOCIAL DANCING

This movement class focuses on complimenting the academic program with experiential and body-based activities. Students learn world and folk dances, as well as partner dances such as swing, waltz, polka, and salsa.

ELECTIVES

MODEL UNITED NATIONS

The aim of the Model U.N. is for students to learn about how the United Nations functions and the role it plays in global politics. The students assume the roles of delegates of an actual U.N. member nation. In those roles the students learn about global issues, how to write resolutions using the United Nations format, as well as how to use consensus decision making. The class culminates with a four-day trip to New York City to attend the National High School Model U.N. conference, where students interact with their peers from around the world.

ORCHESTRA

The instrumental music ensemble enables students to work with different arrangements of traditional classical music, world music, and popular music. The purpose is to develop a broader scope as well as a deeper appreciation for all music.

ECO ORCHESTRA

This ensemble group assimilates non-traditional objects into music-making. Students make musical instruments out of found objects (for example, stones, vegetables, and recyclable materials) from our environment.

EURYTHMY

The eurythmy elective presents a unique opportunity for students to explore poetry and music independently. Both solo and small group work is stressed. Students perform in school and in the community at large.

MANDARIN CHINESE

Mandarin Chinese is the standard language of the People's Republic of China. The class will focus on mastering the basics of daily conversation so that the student will have a foundation from which to communicate in Chinese. Speaking skills, listening skills, reading, and writing are all addressed in a fun and active manner.

MATH CLINIC

The math clinic provides students from all high school math courses an opportunity to get extra practice on daily course topics. Students can also use this elective to do math homework and get assistance as needed from a math teacher. Math clinic is offered four days per week. Students can join all four sessions if desired.

YEARBOOK

The yearbook staff is responsible for the complete design and production of the School's yearbook. Students in grades 9 through 12 design pages, take photographs, edit copy, plan and organize the book and prepare it for printing. Students gain valuable real-world experience as they meet deadlines, work cooperatively and utilize their leadership skills to form a cohesive group to manage and complete this large project.

CHORUS

Students sing a wide range of music and experience a variety of genres. Self-expression becomes a window into communal music-making and into other cultures. The process of preparing music is as important as the final result; students perform at a variety of assemblages.

FASHION

Students design and create various pieces of clothing using a variety of techniques.

ART

Students may select painting, drawing or print making as their medium of choice for this elective. Each student works independently in a small and supportive atmosphere and is expected to complete several small pieces or a large one during the semester.





Sophomore Year

MAIN LESSONS

GREEK THOUGHT

Greek Thought is an introductory philosophy class that explores the works of the pre-Socratics, Socrates, Plato, and Aristotle. Along with reading and discussing Plato's *Apology*, students also explore selections from *The Republic*, *The Symposium*, and *Phaedrus*. The Philosophy of Love is one of the central themes of this course, allowing for students to think critically about this subject. Students endeavor to understand Greek philosophy in its historical context, as well as in terms of its potential relevance for contemporary times.

HOMER'S ODYSSEY

This course is an in-depth study of *The Odyssey*, an epic narrative divided into twenty-four books, with a supplementary exploration of Greek mythology. Students closely examine each chapter to assess character motivation, identify Homeric epithets, and analyze multi-layered epic similes. After reading the climax of the plot, students must assess whether or not the ending is justified. Nightly readings of one to two chapters, regular writing assignments and class lectures provide a platform for class work.

HISTORY THROUGH LANGUAGE

This seminar provides insight into the origins and history of the English language, beginning with the concept of an Indo-European parent-language and its dispersal across India and Europe. Students discern how a language shifts over time, subject to migrations, wars and cultural mergers, and how languages can evolve into creoles, dialects and eventually new languages. Students read *Beowulf* to get a feel for Old English literature and its Germanic roots, and selections from *Canterbury Tales* by Geoffrey Chaucer to experience Middle English. Finally, they study the Great Vowel Shift to understand one of the driving forces behind Modern English. More than just a literature course, students come away with an understanding of key linguistic principles and the formative role that history plays in the evolution of language.

LATIN AMERICAN HISTORY

A survey of Latin American History from pre-Columbian times to the present, this seminar offers an opportunity to explore and study the historical, political, religious, socio-economic and artistic development of the people, cultures, and nations of Latin America from ancient times to the present. Emphasis is placed on the study of indigenous cultures and civilizations and the impact of the European Exploration and conquests of the 15th and 16th centuries. Students investigate the consequent impact of the Columbine discovery, the colonial periods, revolutions, rise of dictatorships, and modern political movements in Latin America, including globalization and development.

METEOROLOGY

This block is an exploration of the fluid elements of earth, air and water. Topics covered include radiation, convection, conduction, properties of water (cohesion, adhesion, and hydrodynamics), the Coriolis Force, Hadley cell circulation, and insulation. Further topics of study are the hydrologic cycle, the structure of the atmosphere, ocean current circulation, and how the world's oceans contribute to climate. Consideration is given to how the vast fluid expanse of air and water is so closely linked to human activity on the surface of the Earth.

ORGANIC CHEMISTRY

Topics include the development and organization of the Periodic Table, atomic structure, ions, oxidation reduction reactions, and bonding. Emphasis is placed on the drawing and naming of molecular structures, with a brief unit on carbon compounds, including major classes of hydrocarbons and substituted hydrocarbons. Laboratory activities are an integral part of this class.

PHYSICS: MECHANICS

Mechanics is an investigation in motion and its applications in physics. Classroom demonstrations and hands-on experiments illustrate concepts of time, position, one-dimensional motion, velocity, acceleration and free fall. Students follow the developments of these ideas in history, reading directly Galileo's own works, and their implications for everyday life today. Emphasis on hands-on experience and problem-solving reinforce our studies.

PHYSIOLOGY

This seminar includes the study of human physiology as well as health and hygiene. Topics include endocrine, digestive, circulatory, excretory, immune and skeletal systems. Labs are an integral part of the course.

SOPHOMORE PLAY

The sophomore class presents a full-length play at the end of the first semester. Everyone participates through a dramatic role and through help with the technical production.

YEAR-LONG CLASSES

CHEMISTRY ELECTIVE

This is a yearlong survey of chemistry concepts. Topics include atomic structure, the periodic table, chemical bonding, kinetic theory of gases, kinetics, equilibrium, and redox reactions. Theoretical concepts are investigated in the laboratory and by means of problem solving.

Prerequisite: Successful completion of Math A and Faculty approval

WORLD HISTORY ELECTIVE

Students study events and trends of world history spanning from 500 B.C.E. to

the present. Students write five to seven page research papers using MLA in-text citations and present the fruits of their research to the class. Reading materials include primary documents, textbooks and newspapers. Students are required to stay current with contemporary world events.

ENGLISH II

Tenth graders are intrigued by polarities and transformation: "How do things change and interact?" Students endeavor to answer this question through creative and formal writing, as well as works of fiction and short stories. In conjunction with the tenth grade focus on the study of ancient cultures, sophomores read Gilgamesh to examine the parable as a precursor to the medieval allegory and modern short story and enhance their vocabulary study with Greek and Latin roots, prefixes and suffixes.

EURYTHMY II

The students do basic eurythmic exercises, such as three-fold walking, and contraction and expansion. Speech eurythmy includes: vowels and consonants, poems/poets studied in literature lessons, rhyme forms, meter, construction, thinking/feeling/willing forms, Apollonian and Dionysian forms. Particular emphasis is given to the study of symmetrical and geometrical forms. Tone eurythmy includes all of the elements found in music such as pitch, rhythm, beat, dissonance, and intervals.

FOREIGN LANGUAGE: FRENCH II, GERMAN II OR SPANISH II

The second high school level of foreign language study builds upon the language skills acquired previously in Level I. More advanced vocabulary, grammatical and communicative structures, and cultural aspects of the various French-, German-, and Spanish-speaking countries are introduced. Language learning is enriched through songs, poetry, authentic readings, auditory/visual materials and field trips.

LEADERSHIP SKILLS: RESEARCH/TECHNOLOGY

Building upon what they learned in the 9th grade leadership seminar, students acquire the skills necessary for success in researching topics for papers and presentations they are expected to tackle as sophomores. Topics covered include website evaluation, online citation tools, use of collaborative software, and further exploration of organizational tools, Microsoft Word and PowerPoint. Students also review rules of citation and plagiarism.

MATH IIA: ADVANCED GEOMETRY

This course develops geometry as a system of logical reasoning using clear definitions, postulates, theorems and corollaries to foster creative and critical thinking. Geometric elements, structure and relationships are presented and integrated with algebra, trigonometry, logic and arithmetic. Deductive reasoning

is introduced and applied to geometry to develop formal mathematical proofs. The topics of congruence, parallelism, quadrilaterals, circles, similarity, areas, regular polygons, coordinate geometry and locus are studied from geometric, algebraic and graphic perspectives for the improvement of reasoning.

MATH II: GEOMETRY

This is a course in which the principles of logical reasoning are introduced before the study of proof. Students develop their deductive reasoning skills throughout the course by providing informal justifications and informal arguments. Real-life applications illustrate geometric concepts. Specific subject areas of study include: parallel lines and planes, congruent triangles, quadrilaterals, right triangles, circles, and similar polygons. Also developed is the study of transformations and determining the area of plane figures as well as the area and volume of solids. Trigonometry involving triangles is also introduced.

PHYSICAL EDUCATION

The tenth grade physical education curriculum includes units in soccer, volleyball, team handball, basketball and softball. During these units, students learn skills, terminology, and rules. They also apply their knowledge and skills to game situations. Fitness and cardiovascular activities are presented throughout the year. Safe playing techniques and sportsmanship are always emphasized.



ART BLOCKS

VISUAL ART

Using charcoal and crayon, the sophomores begin this course with monochromatic drawing. As they imagine landscape forms and observe surroundings, the students search for a visual interpretation that conveys these forms in a two-dimensional format. The emphasis in the course changes when students create a clay tile; students take note of and work with the play of light on the forms of the tile. Developing form in clay offers the opportunity to both add and subtract elements. Carving wood requires an acceptance of the resistant qualities of this material and helps develop an understanding and appreciation of its individual qualities.

FIBER ARTS

Weaving comprises the overall theme of the sophomore fiber arts curriculum. Students apply the three traditional methods of basket weaving, plaited, twined, and coiled, on baskets made of natural, man-made, and recycled materials. Students also learn to weave cotton on a simple loom, the Inkle loom, and each individual weaves a belt, headband or guitar strap. Students finish off the ends and present all their work at the final review.

SOCIAL DANCING

This movement class focuses on complimenting the academic program with experiential and body-based activities. Students learn world and folk dances, as well as partner dances such as swing, waltz, polka, and salsa.

ELECTIVES

MODEL UNITED NATIONS

The aim of the Model U.N. is for students to learn about how the United Nations functions and the role it plays in global politics. The students assume the roles of delegates of an actual U.N. member nation. In those roles the students learn about global issues, how to write resolutions using the United Nations format, as well as how to use consensus decision making. The class culminates with a four-day trip to New York City to attend the National High School Model U.N. conference, where students interact with their peers from around the world.

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The eurythmy elective presents a unique opportunity for students to explore poetry and music independently. Both solo and small group work is stressed. Students perform in school and in the community at large.

MANDARIN CHINESE

Mandarin Chinese is the standard language of the People's Republic of China. The class will focus on mastering the basics of daily conversation so that the student will have a foundation from which to communicate in Chinese. Speaking skills, listening skills, reading, and writing are all addressed in a fun and active manner.

MATH CLINIC

The math clinic provides students from all high school math courses an opportunity to get extra practice on daily course topics. Students can also use this elective to do math homework and get assistance as needed from a math teacher. Math clinic is offered four days per week. Students can join all four sessions if desired.

YEARBOOK

The yearbook staff is responsible for the complete design and production of the School's yearbook. Students in grades 9 through 12 design pages, take photographs, edit copy, plan and organize the book and prepare it for printing. Students gain valuable real-world experience as they meet deadlines, work cooperatively and utilize their leadership skills to form a cohesive group to manage and complete this large project.

CHORUS

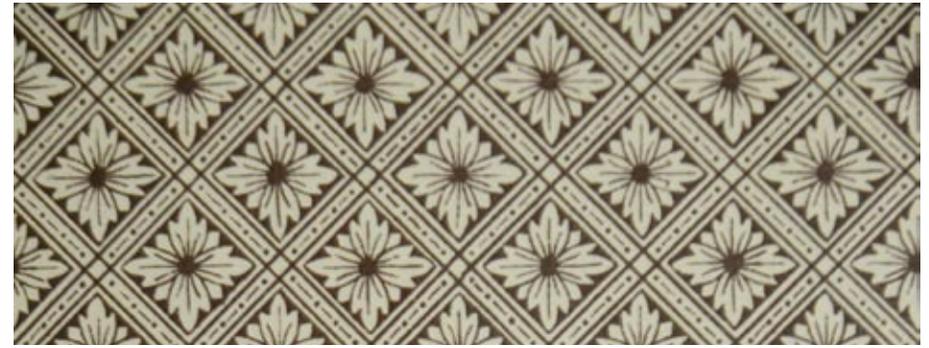
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FASHION

Students design and create various pieces of clothing using a variety of techniques.

ART

Students may select painting, drawing or print making as their medium of choice for this elective. Each student works independently in a small and supportive atmosphere and is expected to complete several small pieces or a large one during the semester.





Junior Year

MAIN LESSONS

ACIDS AND BASES

This is a lab-based seminar focusing on the importance of acids, bases and salts in daily life. The properties and uses of acids and bases are explored. Advanced chemistry concepts include pH, pOH, Ka, Kb, Kw, salt hydrolysis and buffers.

DANTE

In this seminar students read Dante's *Inferno* and discuss the major themes in essays and in class. Collaborative projects include creating a contemporary map of hell and choreographing a performance that includes drama, film and music.

ELECTRICITY AND MAGNETISM

This Physics course will cover topics of study such as static electricity, fields, electrodynamics, series and parallel circuits, magnetic fields, natural magnetism, induction coils, electromagnets, generators and motors, AC and DC, and the electromagnetic spectrum. Emphasis is placed on the harmony and interrelationship exhibited by the phenomena via direct and careful observation.

HISTORY THROUGH MUSIC

In this course students study the periods of music which have influenced music of the twentieth century. The periods covered are Medieval, Renaissance, Baroque, Classical, and Romantic.

PARZIVAL

Parzival is an in-depth study of Wolfram von Eschenbach's *Parzival*, a sixteen-chapter Medieval romance written by a German knight at the start of the thirteenth century. In addition to discussing the story's allegorical significance, the class writes a series of essays about Parzival's outer and inner development. To produce notebooks with a medieval touch, students are given time to experiment with calligraphy and illuminated lettering. A field trip to the Cloisters and the Cathedral of St. John the Divine supplements the students' knowledge of the Middle Ages and helps students enter the world of the Middle Ages.

PROJECTIVE GEOMETRY

Projective Geometry covers a historical view of the mathematical breakthroughs symbolizing new realms of thought. A comprehensive and hands-on experience of projective transformations and in particular, the geometrical experience of infinity, gives students a real experience of synthesizing new mathematical ideas.

SHAKESPEARE

Students read one tragedy, one comedy and a selection of sonnets. Through dramatic presentations and intensive writing exercises, students engage the Bard, his cultural context, and performance values on several different levels.

US HISTORY: THE 20TH CENTURY

A survey of the major events that shaped the American experience in the 20th Century, from the Great Depression, to World War II and the development of the Cold War. Students investigate the transformation of American society through the Civil Rights Movement and the Women's Rights Movement through a combination of reading from textbooks and primary documents, in addition to lecture and class discussion.

WORLD RELIGIONS

A survey of the world's major religions. Emphasis is placed on the development and essential tenets of Christianity, Judaism, Buddhism, Islam and Hinduism. This seminar encourages a willingness to explore new ideas, and teaches participants to respect different points of view.

ZOOLOGY

A survey of the animal kingdom that compares and contrasts the major animal phyla. A trip to the Bronx Zoo provides the opportunity to observe and analyze animal behavior.

YEAR-LONG CLASSES

ELECTIVE HISTORY: HISTORY OF THE UNITED STATES

This course traces the change in societal life in the United States from its migrational, First American form through to the American Revolution. Emphasis is placed on geographical expansion, cultural changes, political developments, and the economic advances of the 19th century that sets the stage for the major turning points in American History in the 20th century. Students are introduced to the Constitution and the three branches of American Government. Significant focus will be placed on famous Supreme Court cases and current political events.

ELECTIVE SCIENCE: CHEMISTRY

Yearlong survey course of basic chemistry concepts. Topics include atomic structure, the periodic table, chemical bonding, kinetic theory of gases, kinetics, equilibrium, and redox reactions. Theoretical concepts are investigated in the laboratory and by means of problem solving.

ELECTIVE SCIENCE: PHYSICS

Yearlong course that aims to develop conceptual principles in physics through reasoning and problem solving. Topics include kinematics in one and two dimensions, forces, Newton's Law of Motion, dynamics of uniform circular

motion, work and energy, impulse and momentum, elasticity and simple harmonic motion, principle of linear superposition and interference phenomena, electromagnetic theory, and magnetism.

Prerequisite: Upper level math course, B+ average in all science courses, and teacher recommendation.

ENGLISH III

In English III students read three short novels, *The Great Gatsby* by F. Scott Fitzgerald, *The Poisonwood Bible* by Barbara Kingsolver and *Invisible Man* by Ralph Ellison. The students also read Romantic and Modern Poetry. To enhance their appreciation of poetry, the students closely examine poetics in *Sound and Sense*, learning how poets craft works of enduring appeal. To polish their writing, the students read Strunk and White's *The Elements of Style*. Then the students familiarize themselves with our library's on-line databases and research topics of their choice to write MLA style research papers. In preparation for the SAT, students must take the PSAT in the fall and go over each question in class. Students are also required to complete a 15-unit vocabulary workbook.

FOREIGN LANGUAGE III: FRENCH, GERMAN OR SPANISH

The third high school level of foreign language study builds upon the language skills acquired previously in levels I and II. More advanced vocabulary, grammatical and communicative structures, and cultural aspects of the various French-, German-, and Spanish-speaking countries are introduced. Language learning is enriched through songs, poetry, authentic readings, auditory/visual materials and field trips.

INTRODUCTION TO BUSINESS

This course will focus on business and finance during the first semester and on management during the second semester. In addition to a practical understanding of accounting, students will develop additional competencies in areas such as strategic and critical thinking, risk analysis, problem solving and decision making, communication, team work and leadership, and awareness of the legal and regulatory environment, with an emphasis on ethical responsibility.

LEADERSHIP SKILLS: RESEARCH/TECHNOLOGY

In this course, students develop the research skills needed for papers and presentations they will be expected to tackle in their junior year. Students become fluent in a variety of presentation software with a focus on Smart notebook, allowing students to utilize the school's Smart boards for class presentations. A review of research ethics and helpful tips, more exercises with Microsoft Word, PowerPoint and Publisher, and the extension beyond MLA citation into other formats such as Chicago and APA style prepare students thoroughly for their college experiences.

MATH IIIA: ADVANCED PRECALCULUS

Precalculus is a primer course for calculus that reviews linear, polynomial, exponential, logarithmic and trigonometric functions. The graphing calculator is introduced and used throughout the course to operate with real-life data and applications. Students are taught to examine a situation from numerical, graphical and analytical perspectives. The last trimester deals with analytic trigonometry: fundamental identities, solving trigonometric equations, sum and difference formulas, Law of Sines and Law of Cosines. The course ends with sequences, series, sigma notation, and multivariable systems of equations and inequalities.

MATH III: INTERMEDIATE ALGEBRA

Math III provides a straightforward program of study with continual reinforcement and progressive confidence building. Topics covered include a chapter on real numbers, linear equations, functions and graphs, systems of linear equations and inequalities, polynomials, factoring, simplifying expressions, radical equations and complex rational expressions, sequences, series, sigma notation, and multivariable systems of equations and inequalities. Practice of sample SAT's are offered to keep the students comfortable with this particular type of examination format. The graphing calculator is introduced and used frequently in this course.

PHYSICAL EDUCATION

The eleventh grade physical education curriculum completes units in soccer, volleyball, team handball, basketball and softball. The students play recreational team games such as kickball and agility drills. During these units, students learn skills, terminology, and rules. They also apply their knowledge and skills to game situations. Fitness and cardiovascular activities are presented throughout the year. Safe playing techniques and sportsmanship are always emphasized.

ART BLOCKS

VISUAL ART

Beginning with observational drawing in charcoal, students explore color with acrylic paint and pastel. With each assignment they utilize the expressive power of light and dark contrasts while learning to be sensitive to the more subtle transitional moments in their work. The year culminates in the creation of a stained glass mosaic, where color and light work together.

FIBER ARTS

The junior year in handwork is devoted to working with paper fibers, mainly in paper making and bookbinding. Students begin by making simple paper from recycled fibers: wood, cotton and linen, and book covers from carefully measured and thick fiber board. Students compile their book using exotic papers, fabrics

and their own handmade paper. The pages for the book are then designed, cut and carefully bound together and the entire book is bound. Next the students use these skills to create a portfolio that will be used in one of their main lesson seminars. A complex multi-signature hardbound book follows this and then a project of the students own choosing that incorporates some form of paper engineering is completed prior to the final review at which all their paper and books are presented to the entire class.

EURYTHMY III

The students engage in basic eurythmic exercises. Using forms and gestures, the students enter into the inner being of the movement of sound, speech and tone. Speech eurythmy includes: vowels and consonants, poems/poets studied in literature lessons, rhyme forms, meter, construction, thinking/feeling/willing forms, Apollonian and Dionysian forms, symmetrical and geometrical forms. Particular emphasis is given to the study of the planets. Tone eurythmy includes all of the elements found in music such as pitch, rhythm, beat, dissonance, and intervals.

SOCIAL DANCING

This movement class focuses on complimenting the academic program with experiential and body-based activities. Students learn world and folk dances, as well as partner dances such as swing, waltz, polka, and salsa.

ELECTIVES

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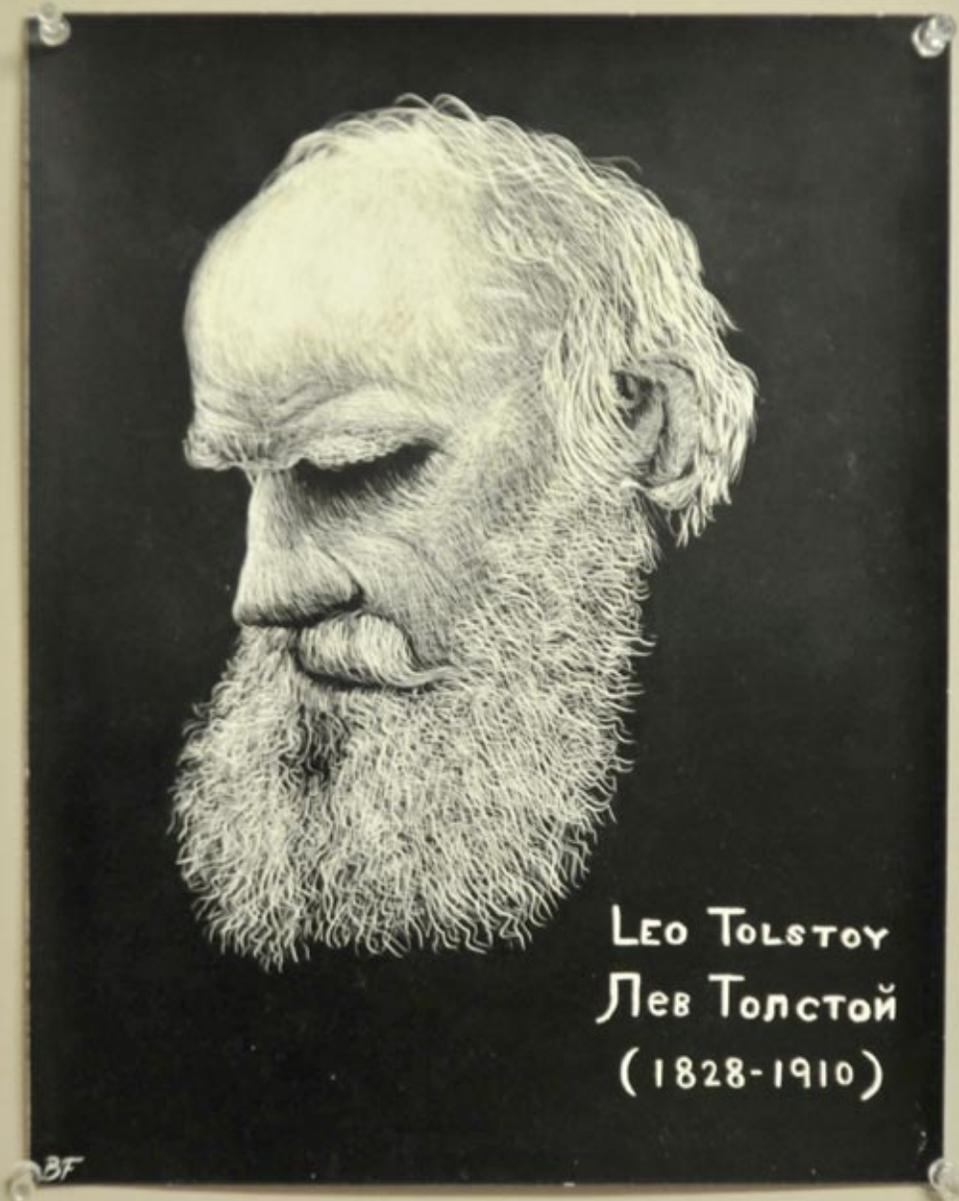
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Senior Year

MAIN LESSONS

ECONOMICS

Economics is a survey of economic life that aims to create a sense for what a healthy relationship to the economy means to each individual student. Students begin from the premise that the whole of humanity is knit together in a global economy. Students reflect on how the economic activities of production, trading, and consumption are bounded by culture and nature, as well as how the wealth generated by economic activities also depends on intellectual creativity and the capacities of laborers. Students consider the societal forces and values that regulate human relations within the economic sphere.

HISTORY OF AFRICA

This course is a survey of African History that affords the students a broad, general background of African History to ground their knowledge of the role of Africa in the world today. Emphasis is placed on the different cultures that arose on the continent, from ancient times, through the colonial period and up to the present. Students gain a greater appreciation of the contributions and struggles of the African people by completing an artistic project inspired by current events in Africa as their final project for the course. Lectures and a reading packet serve as the basis of student learning.

HISTORY THROUGH ARCHITECTURE

In this seminar students are provided a comprehensive understanding of the history of western culture as it is reflected in the development of architecture. Students follow the chain of evolution in this field from prehistoric to contemporary art. Students are directly involved in the creative process of architectural design in a hands-on way. They develop a complex project on a computer program similar to those used by professionals in the field today.

OPTICS

In this Physics class topics of study include virtual and reflected spaces, refraction, diffraction, parallax, color, lenses, shadows, mirages, the rainbow, optical sky phenomena, eye physiology, prisms, lenses, Newton's and Goethe's color theories, and phenomenology. Emphasis is placed on an experiential and experimental look at some of the most interesting phenomena in the history of science—those dealing with light in all its manifestations.

RUSSIAN LITERATURE

Students read a selection of Russian poetry and prose works by authors such as Pushkin, Gogol, Tolstoy, and Solzhenitsyn. Biographies of these authors and others are studied.

SYMPTOMATOLOGY

This is a survey course of the political issues that shape and define the current political situation of the world. Some of these topics include radicalization of Islam, treatment of prisoners of war, politics of oil, the Israeli Palestinian conflict, global terrorism, and domestic surveillance. Students begin to perceive the deeper impulses that run through events or even epochs. This is a discussion-driven course that prepares students for active participation and understanding of current events issues, ingredients for success in advanced university courses.

TRANSCENDENTALISM

Transcendentalism, a nineteenth-century spiritual and intellectual movement, gave birth to American literature and allowed thinkers and writers to break free from their European forbears. Through examination of seminal American literary figures such as Emerson, Thoreau, Fuller and Whitman, this course introduces students to key concepts such as self-reliance, the oversoul, and presence of the divine in nature. Taking inspiration from Emerson and Thoreau, students learn the basics of argumentation and draft essays expressing personal core values.

EVOLUTION

In this Biology main lesson students are afforded an introduction to the fundamental ideas of conventional evolutionary theory. Students focus on the increasing complexity exhibited by the organisms of the various phyla beginning with the porifera and ending with the chordates. Classical Darwinism is compared to other ideas including modern evolutionary theory.

SENIOR PLAY

The entire senior class spends part of the second semester producing a play to be performed during the week before graduation. Everyone participates in recreating a dramatic role as well as holding a position backstage.

YEAR-LONG CLASSES

HISTORY ELECTIVE: WORLD HISTORY SURVEY

The World History elective provides a systematic overview of world history from the beginning to the present, focusing on global current events. Students are taught to write effective research papers, participate in seminar discussions and compose essay exams.

HISTORY ELECTIVE: HISTORY OF THE UNITED STATES

This course traces the change in societal life in the United States from its migrational, First American form through to the American Revolution. Emphasis is placed on geographical expansion, cultural changes, political developments, and the economic advances of the 19th century that sets the stage for the major turning points in American History in the 20th century.

Students are introduced to the Constitution and the three branches of American Government. Significant focus will be placed on famous Supreme Court cases and current political events.

SCIENCE ELECTIVE: CHEMISTRY

This is a yearlong survey of chemistry concepts. Topics include atomic structure, the periodic table, chemical bonding, kinetic theory of gases, kinetics, equilibrium, and redox reactions. Theoretical concepts are investigated in the laboratory and by means of problem solving.

SCIENCE ELECTIVE: PHYSICS

Yearlong course that aims to develop conceptual principles in physics through reasoning and problem solving. Topics include kinematics in one and two dimensions, forces, Newton's Law of Motion, dynamics of uniform circular motion, work and energy, and impulse and momentum, elasticity and simple harmonic motion, principle of linear superposition and interference phenomena, electromagnetic theory, and magnetism.

Prerequisite: Upper level math course, B+ average in all science courses, and teacher recommendation.

BUSINESS ELECTIVE: INTRODUCTION TO BUSINESS

This course will focus on business and finance during the first semester and on management during the second semester. In addition to a practical understanding of accounting, students will develop additional competencies in areas such as strategic and critical thinking, risk analysis, problem solving and decision making, communication, team work and leadership, and awareness of the legal and regulatory environment, with an emphasis on ethical responsibility.

ENGLISH IV

In this course students read, discuss, and respond to works of literature from the mid 1800's up to the present day. A lot of writing—both creative and analytical—is created through brainstorming, free writing, drafts and revisions. Students choose the focus of the first semester; possibilities include studies of modern literature from Latin America, Ireland, Afghanistan or 20th Century dreams and nightmares.

FOREIGN LANGUAGE IV: FRENCH, GERMAN OR SPANISH

Students review and survey topics of grammar, literature, and culture. A repertoire of speech exercises, poems and songs is often prepared for presentation at All-school assemblies. The year culminates in the preparation of a play for members of the school community.

MATH IVA: ADVANCED CALCULUS

This is a one-year in-depth study of differential and integral calculus of functions of one real variable. Students use calculus, i.e. limits, various methods

of differentiation and integration, in their solutions of problems in physics, economics, business, the life sciences, and the physics of sports.

Prerequisite: Pre-Calculus A and Departmental Approval

MATH IV: PRE-CALCULUS

This course primarily deals with functions and the related equations, from data to equation and vice versa. The function concept plays a unifying role in our study of linear, quadratic, polynomial, rational, exponential, and logarithmic and trigonometric functions. The graphing calculator is used heavily throughout the course. The last trimester deals with analytic trigonometry: fundamental identities, solving trigonometric equations, sum and difference formulas, Law of Sines and Law of Cosines. The course ends with sequences, series, and sigma notation.

PHYSICAL EDUCATION

The twelfth grade physical education curriculum completes units in soccer, volleyball, team handball, basketball and softball. During these units, students learn skills, terminology, and rules. They also apply their knowledge and skills to game situations. Fitness and cardiovascular activities are presented throughout the year. Safe playing techniques and sportsmanship are always emphasized.

ART BLOCKS

During the senior year, each senior chooses to concentrate on conceiving, executing and completing a Senior Project in either fiber art, fine art, or woodwork. The Senior Project culminates in an art exhibition in the High School Lobby and Student Room.

FINE ART

Seniors who choose to concentrate on fine art may focus on one technique such as painting, drawing, printmaking, clay sculpture or stained glass. After selecting a theme, students also have the option of combining more than one of these media for their work during the year.

FIBER ARTS

Seniors who choose to concentrate on handwork are able to deepen their knowledge and expand their skills in any one of the following areas: weaving, dyeing, felting, spinning & knitting, sewing/quilting, tailoring or bookbinding/box making.

WOODWORKING

Twelfth Grade students who choose woodworking for the school year will have the opportunity to build a fine piece of furniture. Depending on the skills and motivation of the student, s/he may make a cabinet with paneled doors and a drawer, a small desk with a file cabinet and a drawer, a computer desk, a

rustic dining table or a chest of drawers. Each student has about 50 hours for the senior project, 20 of which should be allotted to sanding and finishing.

EURYTHMY IV

The students do basic eurythmic exercises, such as three-fold walking, and contraction and expansion. Using forms and gestures, the students enter into the inner being of the movement of sound, speech and tone. Speech eurythmy includes: vowels and consonants, poems/poets studied in literature lessons, rhyme forms, meter, construction, thinking/feeling/willing forms, Apollonian and Dionysian forms, symmetrical and geometrical forms. Particular emphasis is given to the study of the zodiac. Tone eurythmy includes all of the elements found in music such as pitch, rhythm, beat, dissonance, and intervals.

SOCIAL DANCING

This movement class focuses on complimenting the academic program with experiential and body-based activities. Students learn world and folk dances, as well as partner dances such as swing, waltz, polka, and salsa.



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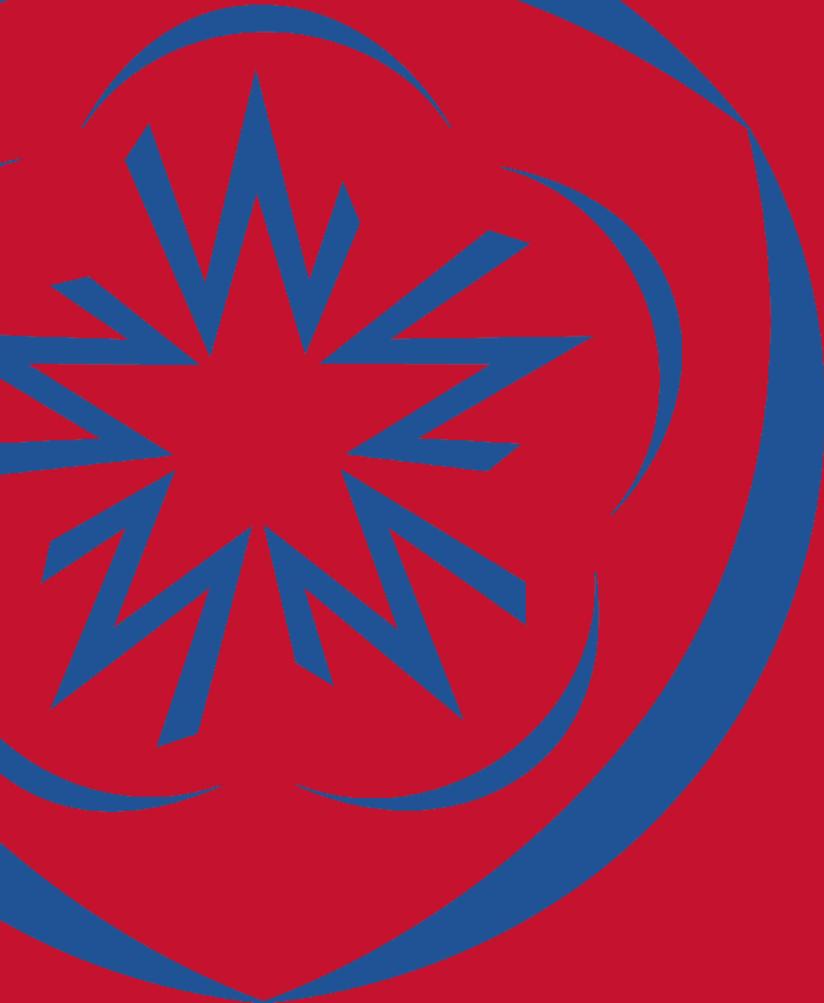
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225 Cambridge Avenue
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516.742.3434 Ext 302
www.waldorfgarden.org