



GLOBAL PARADIGM
INTERNATIONAL
SCHOOL

Course Description Manual (2022-2023)

A message from the Vice principal of Curriculum and Instruction

“Education is the most powerful weapon which you can use to change the world” – **Nelson Mandela**

I believe that teaching our children is one of the most honorable jobs in the world. Enlightening students minds and helping them to further develop their talents and explore their creativity is what we always aim to offer. Through our engaging, rigorous, and authentic curricula, we aim to achieve students understating of their own selves while working into becoming risk takers, inquirers, tolerant and well-balanced individuals.

Heba Zaki



GLOBAL PARADIGM
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Language Arts Courses Description

English K1

Length: 3 Trimesters

Prerequisites: NONE

The students will develop their phonological and phonemic awareness and vocabulary of the Language Arts and gain the foundations for reading and writing. Student will gain book print awareness, letter knowledge, and comprehension. Students will learn to identify and write all capital and lowercase letters and to associate these letters with their sounds. They will gain exposure to a wide variety of children's literature and begin to practice a variety of reading comprehension strategies. Students will maintain writing journals, in which they will draw or write (unconventionally) on a daily basis.

English K2

Length: 3 Trimesters

Prerequisites: NONE

The fundamental principles of the Kindergarten Language Arts Program are to develop a love for reading, writing, and literature and to meet the individual needs of each child. The program builds a foundation for effective listening, speaking, reading, and writing skills. It capitalizes on children's innate desire to learn by providing a variety of meaningful experiences which build on children's prior knowledge and provide opportunities for children to experience language in its different forms. The kindergarten classroom has an extensive library and collection of early literacy materials. Writing is an integral part of the Language Arts curriculum. The writing process may start with an illustration or discussion of an idea. Students then begin to use their knowledge of letter/sound correspondence to describe their ideas. Handwriting is an important part of our curriculum. Students are given many opportunities to use their speaking and listening skills throughout the day. Children are encouraged to expand their communication skills by participating in activities such as dramatic play, show and tell, short plays, and class meetings along with their everyday interactions.

English 1 ENG0001**Length: 3 Trimesters****Prerequisites: NONE**

The children will be exposed to as many literacy experiences as possible. They have 2 to 3 classes of literacy (English) per day, in which they learn phonics, writing and reading skills, as well as oral language. Students will focus on writing, formalizing sentences, and spelling of words as well as identifying high frequency words by sight. Students will read many stories in the Journeys books, listen to stories, as well as close reading in small groups. Over the course of the year, students will be using the school extra-reading system MyOn to practice their comprehension and reading skills.

English 2 ENG0002**Length: 3 Trimesters****Prerequisites: ENG0001**

This course provides students with a systematic presentation of the essential elements of grammar and mechanics, focusing on grammatical concepts, language conventions, and sentence-level writing. Using literature from around the globe and from a variety of genres, the course presents students with exercises designed to increase their comprehension, fluency, and vocabulary skills, as well as develop stronger analytical thinking skills. The course will increase students' abilities to read critically and to think about what they have read. Students will read many stories in the Journeys books, listen to stories, as well as close reading in small groups. The course will also help the students to form complete and varied sentences for use in different types of writing. Over the course of the year, students will be using the school extra-

English 3 ENG0003**Length: 3 Trimesters****Prerequisites: ENG0002**

This course offers a balanced and comprehensive approach to Language Arts. Students will participate in whole group, small group and individualized instruction. Language Arts is divided into reading instruction (reading strategies, comprehension, fluency, accuracy and expression), novel study, writing instruction, grammar, word study (spelling and vocabulary) and oral expression. The course also offers an enormous focus on reading for meaning (comprehension) and reading for pleasure, to establish habits for a lifelong love of reading and learning. Over the course of the year, students will be using the school extra-reading system MyOn to practice their comprehension and reading skills.

English 4 ENG0004**Length: 3 Trimesters****Prerequisite: ENG0003**

This course offers a completion for the balanced and comprehensive approach to Language Arts. Students will participate in whole group, small group and individualized instruction. Language Arts is divided into reading instruction (reading strategies, comprehension, fluency, accuracy and expression), novel study, writing instruction, grammar, word study (spelling and vocabulary) and oral expression. Note taking, summarizing and reflections will also be introduced this year. Over the course of the year, students will be using the school extra-reading system MyOn to practice their comprehension and reading skills.

English 5 ENG1005

Length: 3 Trimesters

Prerequisite: ENG0004

Language arts will focus heavily on reading comprehension, fluency and writing mechanics, or grammar. Vocabulary development will be enhanced through the understanding and use of: synonyms, antonyms, prefixes, suffixes, collective and possessive nouns. Students will also learn how to make inferences through context clues. Much of the coursework will be covered through a variety of learning modalities. Finally, students will continue to demonstrate the ability to apply critical thinking skills through writing, reading literature and informational passages. Over the course of the year, students will be using the school extra-reading system MyOn to practice their comprehension and reading skills.

English 6 ENG1006

Length: 3 Trimesters

Prerequisite: ENG1005

In Language Arts this year, grade six students will be reading a variety of genres including fiction, non-fiction, poetry, and drama. The course covers short stories, plays, poetry, and both reading and writing resources which will offer a comprehensive exposure to the language arts skills students need to obtain.

Students will be focusing on comprehension and literary analysis. In addition, the writing process will focus on composing a narrative essay, a descriptive essay, and a literary analysis essay. Over the course of the year students will be working on reading strategies such as skimming, scanning, and note-taking. Students will also be practicing their speaking skills through oral presentations and group projects.

English 7 ENG1007

Length: 3 Trimesters

Prerequisite: ENG1006

In seventh grade, students continue to apply the knowledge and skills acquired in earlier years but in more refined and sophisticated ways. Emphasis continues to be centered on analyzing literature in greater depth, completing more complex writing assignment, and giving more extensive oral presentations. Students will continue reading a variety of genres including fiction, non-fiction, poetry, and drama. The course covers short stories, plays, poetry, and both reading and writing resources. The department has also launched and adopted a new real world experience by integrating media studies to the students' curriculum.

Students will be focusing on comprehension and literary analysis. In addition, students will be

building their writing skills and writing process by composing and editing a narrative essay, a descriptive essay, and a literary analysis essay. Reading strategies such as skimming, scanning, and note-taking will be developed throughout the year. Students will also be practicing their speaking skills through oral presentations and group projects.

Throughout the year students will also be working on improving their grammar and vocabulary skills with a special focus on context clues. The writing includes report writing, a cause and effect essay, a persuasive essay and a literary analysis essay.

English 8 ENG1008

Length: 3 Trimesters

Prerequisite: ENG1007

This year, we will be reading a variety of genres including fiction, non-fiction, poetry, and drama. The course covers short stories, plays, poetry, and both reading and writing resources. During the first trimester, we will be reviewing the writing process and writing an expository essay, literary analysis essay as well as a compare and contrast essay. Students will be exposed to literary elements, characterization, themes and figurative language. We will also be working on reading strategies such as skimming, scanning, and note-taking. In addition to reading and writing, students will be practicing their speaking skills through oral presentations and group projects.

During the rest of the year comprehension and literary analysis skills will be further developed and practiced. Students will also be working on improving their grammar and vocabulary skills with a special focus on context clues.

English 9 ENG2009

Length: 3 Trimesters

Prerequisite: ENG1008

In ninth grade, students continue to apply the knowledge and skills acquired in earlier years, but in more refined and sophisticated ways. Emphasis continues to be centered on analyzing literature in greater depth, completing more complex writing assignment, and giving more extensive oral presentations. Students will continue reading a variety of genres including fiction, non-fiction, poetry, and drama. The course covers short stories, plays, poetry, and both reading and writing resources.

Shakespearean literature and drama will be presented, while focusing on comprehension and literary analysis. In addition, students will be building their writing skills and writing process by composing and editing a descriptive essay, an autobiography, and a literary analysis essay. Reading strategies such as skimming, scanning, and note-taking will be developed throughout the year. Students will also be practicing their speaking skills through oral presentations and group projects.

Comprehension and literary analysis skills will be developed and practiced. Throughout the year students will also be working on improving their grammar and vocabulary skills with a special focus on context clues.

English 10 ENG2010

Length: 3 Trimesters

Prerequisite: ENG2009

In tenth grade, students are prepared with skills for the SAT, ACT, EST and IB as they continue to apply the knowledge and skills acquired in earlier years, but in more refined and sophisticated ways. Emphasis continues to be centered on analyzing literature in greater depth, completing more complex writing assignment, and giving more extensive oral presentations. Students will continue reading a variety of genres including fiction, non-fiction, poetry, and drama. The course covers short stories, plays, poetry, and both reading and writing resources.

The literature will be discovering political satire, while focusing on comprehension and literary analysis. In addition, students will be building their writing skills and writing process by composing and editing a cause and effect essay, an argumentative essay, and a literary analysis essay. Reading strategies such as skimming, scanning, and note-taking will be developed throughout the year. Students will also be practicing their speaking skills through oral presentations and group projects.

Comprehension and literary analysis skills will be developed and practiced. Throughout the year students will also be working on improving their grammar and vocabulary skills with a special focus on context clues. The writing for the second semester includes report writing, a problem-solution essay, a persuasive essay and a literary analysis essay.

English 11 ENG2011

Length: 3 Trimesters

Prerequisite: ENG2010

This course is designed to strengthen the student's development of oral and written English before the transition to university. The course is designed to continue increasing and refining the students' communication skills and it can be adjusted to accommodate students with different levels of proficiency in English. All students will utilize a variety of writing styles and forms to communicate feelings, ideas and points of views. They will also incorporate different perspectives, language and imagery in novels, short stories, poems and other types of writing.

American classics will be presented, students will be able to develop a repertoire of reading comprehension strategies that they can draw on flexibility to comprehend, analyze and critique both literary and informational texts. Over the year, student will practice writing strategies and a facility with certain types of writing commonly taught in the classroom including argumentative writing, research writing, literary analysis, and creative reflective writing. Students are taught ways of clarifying concepts, exploring opinions, and adding something new to the world of ideas.

The reading component includes exposure to different genres and detailed studies of poetry, short stories, novels, classical contemporary drama. Selections of texts covered include major movements in American literature and essential strategies for literary criticism. Additional, independent reading of the students' choice will be a component of the course.

English 12 ENG2012

(NCAA Accredited)

Length: 3 Trimesters

Prerequisite: ENG2011

This course is designed to strengthen the student's development of oral and written English before the transition to university. Students continue to increase and refine their communication, presentation, analytical and written skills. All students will utilize a variety of writing styles and forms to communicate feelings, ideas and points of view. They will also incorporate different perspectives, language and imagery in novels, short stories, poems and other types of writing. Students will also use technology to prepare essays and presentations to enhance their understanding of literature.

British classics will be presented, students will be able to develop a repertoire of reading comprehension strategies that they can draw on flexibility to comprehend, analyze and critique both literary and informational texts. Over the year, students will practice writing strategies and a facility with certain types of writing commonly taught in the classroom including argumentative writing, research writing, literary analysis, and creative reflective writing. Students are taught ways of clarifying concepts, exploring opinions, and adding something new to the world of ideas.

The reading component includes exposure to different genres and detailed studies of poetry, short stories, novels, and classical drama. Selections of texts covered include major movements in British literature and essential strategies for literary criticism. Additional, independent reading of the students' choice will be a component of the course.



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MATHEMATICS

Course Description

Mathematics K1

Length: 3 Trimesters

Prerequisites: NONE

The students will receive instruction in and demonstrate the ability to perform basic mathematical functions and problem solving in the areas of basic graphing, addition, subtraction, patterning, classifying, measurement, and shapes. Students will receive instruction in and explore numbers to 20.

Mathematics K2

Length: 3 Trimesters

Prerequisites: NONE

A key to mathematical understanding is making the link between the concrete and the abstract—between physical models and written symbols. To create the bridge to ensure these links occur, students will be counting, combining, sorting, and comparing sets of objects. They will learn to recognize and describe simple patterns and recognize shapes and sizes of figures and objects. To achieve this understanding, students will: Use manipulatives to understand the relationships between numbers and physical quantities. Perform simple addition and subtraction using physical objects to model problems.

Mathematics 1 MATH0001

Length: 3 Trimesters

Prerequisites: NONE

First graders begin to develop an understanding of basic math skills. Through the use of Go Math by Houghton Mifflin Harcourt and various manipulatives students explore counting to 100, addition and subtraction to 20, two-digit addition and subtraction, comparing numbers, measurement, data representing, two-dimensional geometry, and three-dimensional geometry. GPIS math program develops reasoning skills and critical thinking and it offers a great deal of review assignments of previously covered skills.

Mathematics 2 MATH0002

Length: 3 Trimesters

Prerequisites: MATH0001

GPIS follows the Common Core standards for second grade math, which include: Understanding place value relationships with numbers up to 1,000, building computational fluency with addition and subtraction, using metric and customary units of measure Describing and analyzing shapes. In order to accomplish these goals. GPIS uses the Go Math program, which not only includes modern, up-to-date textbooks, but also online resources for the students to use. This program makes learning math a fun process!

Mathematics 3 MATH0003

Length: 3 Trimesters

Prerequisites: MATH0002

The third grade Math curriculum focuses on developing concepts and skills in the following areas: Operations and Algebraic Thinking, Numbers and Operations, Measurement and Data, Geometry, Fractions. Students will learn to represent and solve problems involving multiplication and division. They will understand properties of multiplication and the relationship between multiplication and division. Students will learn how to multiply. They will also learn to solve problems involving the four operations, and identify and explain patterns in arithmetic. They will use place value understanding and properties of operations to perform multiple digit arithmetic. Students will also develop an understanding of fractions as numbers. They will solve problems involving measurement and estimation of intervals of time. For statistics they will learn how to represent and interpret data. For geometry they will learn geometric measurement to understand concepts of area and relate area to multiplication and to addition. They will recognize perimeter as an attribute of plane figures and distinguish between linear and area measures as well as reason with shapes and their attributes.

Mathematics 4 MATH0004

Length: 3 Trimesters

Prerequisites: MATH0003

Through the Grade 4 Mathematics program students learn to use the four operations with whole numbers to solve problems, and gain familiarity with factors and multiples. They will know how to generate and analyze patterns and generalize place value understanding for multi-digit whole numbers. They will also use place value understanding and properties of operations to perform multi-digit arithmetic. They will extend understanding of fraction equivalence and ordering and build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. They will also understand decimal notation for fractions and compare decimal fractions. They will deal with problems involving measurement and conversion of measurements from a larger unit to a smaller unit and problems that will involve data interpretation and representation.

Mathematics 5 MATH1005

Length: 3 Trimesters

Prerequisites: MATH0004

Grade 5 Mathematics program dives into the essential building blocks of math. Students will develop their abilities in the four basic operations and continue to improve and review them throughout the year. Students will build an understanding on whole numbers, fractions, and decimal numbers as well as how to use them properly when computing. There will also be a study in the program of measurement conversion, Algebra, and Geometry. Throughout the course of the program, students will find practical uses of mathematics in the real world.

Mathematics 6 MATH1006

Length: 3 Trimesters

Prerequisites: MATH1005

The primary focal areas in sixth grade mathematics are number and operations; proportionality; expressions and equations; and measurement and data. Students will add, subtract, multiply, and divide rational numbers and develop the concept of proportionality. The areas of emphasis will focus on development of algebraic thinking through representation of relationships including equations and inequalities. Students will communicate data using appropriate statistics, representations of data, and reasoning to draw conclusions, evaluate arguments, and make recommendations.

Mathematics 7 MATH1007

Length: 3 Trimesters

Prerequisites: MATH1006

This course will help students develop the skills necessary to manipulate numbers, solve equations and understand the general principles at work. In addition to reinforcing the concepts presented in Math 6, this course extends problem solving to a more sophisticated level. Students apply integer operations to various units of study and concentrate on building an understanding of the core concepts and skills of Algebra. Students will also learn to draw, construct, and describe geometrical figures and describe the relationships between them in order to solve real-life and mathematical problems involving angle measure, area, surface area, and volume.

Mathematics 8 MATH1008

Length: 3 Trimesters

Prerequisites: MATH1007

In grade 8, instructional time should focus on three critical areas: formulating and reasoning about expressions and equations. Including bivariate data with a linear equation, solving linear equations and system of linear equations. Graphing the concept of a function and using functions to describe quantitative relationships. Analyzing two- and three-dimensional space and figures using distance, angles, similarity, and congruence.

Mathematics 9 MATH2009**Length: 3 Trimesters****Prerequisites: MATH1008**

The objectives of Grade 9 mathematics encompass the factual, conceptual, procedural and metacognitive dimensions of knowledge. Knowledge and understanding are fundamental to studying mathematics and form the base from which to explore concepts and develop skills. This objective assesses the extent to which students can select and apply mathematics to solve problems in both familiar and unfamiliar situations in a variety of contexts. In order to reach the aims of mathematics, students should be able to:

- i. selects appropriate mathematics when solving problems in both familiar and unfamiliar situations
- ii. apply the selected mathematics successfully when solving problems
- iii. solve problems correctly in a variety of context

Mathematics 10 MATH2010**Length: 3 Trimesters****Prerequisites: MATH1009**

Students will continue to build on algebraic and geometric concepts. Throughout the course, Common Core standards are taught and reinforced as the student learns how to apply the concepts in real-life situations. It develops advanced Algebra skills such as foundations, function families, quadratic functions and complex numbers, polynomials expressions and equations, exponential and logarithmic functions, rational functions, statistics, periodic functions and trigonometry, and applying trigonometric functions.

Mathematics 11 (Pre-Calculus) MATH2011**Length: 3 Trimesters****Prerequisites: MATH1010**

Pre-Calculus weaves together previous study of algebra, geometry, and mathematical functions into a preparatory course for calculus. The course focuses on mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Throughout the course, Common Core standards are taught and reinforced as the student learns how to apply the concepts in real life situations. Topics include fundamental concepts of Algebra, functions and graphs, polynomials and rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, topics in trigonometry, systems of equations and inequalities, sequences, induction, probability, and an introduction to Calculus.

Mathematics 11 (Business Math) MATH2111**Length: 3 Trimesters****Prerequisites: MATH1010**

Primarily intended for business and economics students, this course is designed to introduce and reinforce the essential mathematical skills needed to understand, analyze, and solve mathematical problems related to business and economics. Topics covered include basic algebra; functions, including a review of exponential and logarithmic functions; sequences and series with financial applications; limits; continuity; and differential calculus including derivatives, higher order derivatives, and curve sketching.

Mathematics 12 (Calculus) MATH2012

Length: 3 Trimesters

Prerequisites: MATH1010

This course in calculus is intended to develop practical skills in differential and integral calculus. As well, it is intended to illustrate various applications of calculus to technical problems. The rules of differentiation will be introduced, and methods of differentiating various algebraic and transcendental functions will be developed. Applications of differential calculus to finding roots of equations by Newton's method, to finding maxima and minima, and to developing power series representation for functions will be studied. Methods of algebraic integration will be introduced, with both definite and indefinite integrals being determined for a variety of functions. The use of tables of integrals for finding solutions for difficult integrals will be introduced.

Mathematics 12 (Statistics) MATH2012

Length: 3 Trimesters

Prerequisites: MATH1010

This course is a practical hands-on approach to the study of statistics and probability. The topics include the use of graphs such as histograms, stem plots, time plots, and scatter plots to display data, using numbers such as median, mean, and standard deviation to describe data, and evaluating data distribution. Students examine relationships using correlations and least square regressions. They calculate the probability of simple and compound events. They learn to estimate with confidence as well as to explore tests of significance, and to evaluate the validity of statistics contained within published reports.



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SCIENCE Course Description

Science K1

Length: 3 Trimesters

Prerequisites: NONE

The program is designed for building inquiry and observation skills optimized for learning in the classroom or at home. The science curriculum develops important critical-thinking skills that prepare students for success in future science courses and in the workplace. The students will learn about the parts of the body and the five senses. They will also learn about plants and animals from a variety of different habitats. They will study the characteristics of the four seasons and learn about different types of weather. Throughout the year, students will practice scientific skills such as observing, describing, and comparing the attributes of common objects.

Science K2

Length: 3 Trimesters

Prerequisites: NONE

The program will continue developing the observation and inquiry skills introduced before. students will continue to learn about the parts of the body and the five senses. They will also learn about plants and animals from a variety of different habitats. They will study the characteristics of the four seasons and learn about different types of weather. Throughout the year, students will practice scientific skills such as observing, describing, and comparing the attributes of common objects.

Science 1 SC0001**Length: 3 Trimesters****Prerequisites: None**

Science in first grade is designed to help children use their senses to explore the world around them as they enquire and predict, hypothesize and investigate, and make conclusions. The program presents students with the basic concepts of modern technology, animals, plants, environments, Earth's resources, weather and seasons, astronomy, matter, forces, and energy. Many hands-on activities reinforce the subject matter. In addition children will be prepared to complete a detailed science project and participate in our annual Science Fair. (Including a science fair project conducted by students in order to further develop their scientific research skills)

Science 2 SC0002**Length: 3 Trimesters****Prerequisites: SC0001**

Science in second grade instills in children the joy of discovering how things work and react together. In the Science program the students will learn about the Scientific method, the plant and animal kingdom, environments, resources, weather, the solar system, matter, and energy. Students will be involved in experiments, as well as using online resources. (Including a science fair project conducted by students in order to further develop their scientific research skills)

Science 3 SC0003**Length: 3 Trimesters****Prerequisites: SC0002**

Our science program is divided into 3 topics, Life science, Earth science, and Physical science. For each lesson, students will learn the concepts in a variety of ways and will be exposed to hands on learning, investigates and projects. In life science students will learn all about the characteristics of living organisms, that cells are the building blocks of all things living, and that living things come together to form and interact in ecosystems and food webs. In Earth science, students will learn all about outer space, characteristics of the planets and the lunar cycle. Through Physical science, Students will learn about states of matter, forms of energy and light. Students will always focus on the scientific method as a basis for all learning and will get a chance to apply it to their own inquiries during science fair. For each topic, students will get a chance to apply what they have learnt in the form of a project and presentation.

Science 4 SC0004

Length: 3 Trimesters

Prerequisites: SC0003

The Grade 4 Science course continues with the steps of the scientific method, the engineering design process and moves on to plants and animals, energy and ecosystems, the weather, earth and space, the properties of matter, the changes in matter, energy, electricity, and motion. Students will make experiments in the classroom which will help them visualize the concepts studied in the lesson. They will each be expected to make their own project in the Science Fair in which they should make an observation, make a hypothesis, perform an experiment by following a procedure, present their interpretation of the results, and draw a conclusion

Science 5 SC1005

Length: 3 Trimesters

Prerequisites: SC0004

Physical Science: Students learn about matter and what it is composed of as well as its physical and chemical properties. Students also learn about the structure of chemicals and how they depend on the structures of atoms and their interaction with one another. They also learn about the flow of energy through systems, motion, forces, gravity and friction.

Earth Science: Students know that Earth's plates and rocks interact to produce predictable changes to the surface of Earth. They learn that there are a large number of observable systems and that dramatic change occurs when different combinations of factors interact within each system. Students get introduced to the mechanisms of natural disasters such as earthquakes, volcanoes, and tsunamis.

Life Science: Students learn that all living things start as a single cell and exhibit predictable patterns of change as they grow and develop. They learn to differentiate between the different types of cells. They also study the different types of interactions between living things and their environment. They learn that resources are necessary for humans to meet their needs and that they have both positive and negative effects on these natural resources

Science 6 SC1006

Length: 3 Trimesters

Prerequisites: SC1005

Grade 6 Science is a program that is a laboratory-based course that provides a broad range of knowledge on various topics related to living things and their environment. Among these topics are structures and functions of cells, growth and development of living things, functions of different body systems and how they work together and the interaction between living things and their environment. The course also provides opportunities for students to conduct field and laboratory investigations use scientific methods during investigation and make informed decisions using critical thinking and scientific problem solving. (Including a science fair project conducted by students in order to further develop their scientific research skills

Science 7 SC1007

Length: 3 Trimesters

Prerequisites: SC1006

Earth Science course deals with the Earth from different aspects. It includes four main branches; Geology, Oceanography, Meteorology and Astronomy. Geology deals with the interior structure of the Earth including the layers, minerals and types of rocks. Oceanography is the science that studies the different movements of water and how can we benefit from this in navigation and generating electricity from tides and waterfalls. As for meteorology, students will get to learn about the atmosphere and its components of gases. The most interesting of all is Astronomy. Space and universe are vague and mysterious for the human kind. Therefore, knowing more about galaxies and other planets is very challenging for the students. The course is supported by hands on activities, projects, and laboratory lessons in which the students will apply on what they are learning.

Science 8 SC1008

Length: 3 Trimesters

Prerequisites: SC1007

Physical Science prepares the students for two main scientific branches; Physics and Chemistry. The part of Physics introduces major concepts as Newton's laws of motion, thermodynamics, States of matter. Students will learn the methods to derivation of different physical quantities as speed, velocity, acceleration, momentum, thus acquiring the problem solving skill. As for Chemistry, they are introduced to the attempts of scientists to discover and arrange the elements in the Modern Periodic Table. From this point, chemical bonding and types of chemical reactions are applicable. Throughout this course, students' skills are enhanced by lab. Lessons where they demonstrate the reactions of elements and compounds. Hands on activities,

projects and field trips foster their knowledge and increase the value of the learning process.

Science 9 SC2009 (Biology)

Length: 3 Trimesters

Prerequisites: SC1006

This course studies the cell, the molecular basis of heredity, biological evolution, interdependence of organisms, matter and energy, and organization in living systems and the behavior of organisms. It includes also Human Anatomy and Physiology, which studies the structure and function of the human body with emphasis placed upon the concepts that help correlate their principals. Some basics of microbiology are also included, diversity of microbial life, the central role of microorganisms in nature and the importance of microorganisms in daily life, as well as some of the most popular diseases, caused by microorganisms. The course highlights anatomy and physiology of plants, genetics, patterns of heredity, biological evolution, energy transfer. The course investigates the life processes that occur within the cell such as, photosynthesis, cellular respiration, and transport of substances. Furthermore, other chapters studied include topics, connected with genetics, ecology, and evolution. Students practice their laboratory skills and develop their critical thinking. In addition, students conduct a science fair project in order to further develop their scientific research skills.

Science 10 SC2010 (Chemistry)

Length: 3 Trimesters

Prerequisites: SC2010

This course includes the basic concepts of general chemistry as it provides a broad exposure to a full range of topics. The students will be introduced to the development of the atomic theory, structure of matter as well as gaining wide information concerning the periodic table of elements. The course is not restricted to conceptual qualitative approach, but also applies on quantitative analysis through mathematical and problem solving. This enables the students to count the atoms and moles in chemical compounds through the principles of stoichiometry. Students will also learn the symbolic language in chemistry to be able to interpret and extract the meanings from symbolism of chemical formulas, reactions and figures.

Science 11 SC2011 (Physics)

Length: 3 Trimesters

Prerequisites: SC1008, MATH2010

This college prep course is designed for students planning on attending college and pursuing careers in science or engineering, or students with a strong curiosity about how the physical world around them works. The course offers a conceptual foundation and a mathematically-based presentation of physics. At the same time it gives students a lot of practice, working with both fundamental physical concepts and problem-solving skills. The syllabus follows an extensive review of core physics content like forces and laws of motion, work and energy, momentum and collisions, circular motion and gravitation, fluid mechanics, heat and thermodynamics, vibration and waves, sound, light reflection, refraction, interference and diffraction, electric forces and fields, electrical energy and current, magnets, magnetic force and magnetic fields, atomic and subatomic physics.

Science 11 SC2211 (Advance Biology)

Length: 3 Trimesters

Prerequisites: SC1008, SC2009

Advanced Biology is a course offered for students who are interested in pursuing a career related to the medical field. The core classes required of all human biology majors provide the student with the basic principles that help us understand normal human physiology and the molecular basis of human disease. The course options in human physiology, human disease, animal reproduction, development, ecology and biomedical-related laboratories provide the students with educational breadth while still allowing them considerable flexibility in tailoring their course of study to suit their educational goals. Emphasis will be placed on the basic anatomy and physiology of the human systems and their interactions. The course is designed to give students a general understanding of their bodies in health and disease.

Science 12 SC2012 (Environmental Science)

Length: 3 Trimesters

Prerequisites: SC1008, SC1006

Environmental Science is a course offered as an elective and aims at providing knowledge and raising student's awareness of the environmental problems facing the world today. It emphasizes the development of critical thinking and analytical skills along with the practice of decision making skills involving many of the issues concerning our environment. The course also provides a general idea about different environmental components as well as a detailed knowledge in some scientific environmental fields. This allows students to connect to the environment around them and to develop a feeling of ownership towards their environment. Environmental Science is an interactive course which includes, but is not limited to, hands-on activities, lab experiments, field trips, research, debates, and oral presentations.

Science 12 SC2112 (Advanced Chemistry)

Length: 3 Trimesters

Prerequisites: SC1008, SC1006

This is a college preparatory class designed for students planning on attending college and pursuing careers in the fields of science, engineering, or medicine. This is an advanced course to modern chemistry, a continuation of the earlier Physical Science course. It covers a wide range of core topics in chemical science, such as atomic structure of matter, the periodic law of elements, chemical bonding, chemical compounds and their reactions, states of matter, acids and bases, chemical equilibrium, reaction energy and kinetics, oxidation-reduction reactions, electrochemistry, nuclear chemistry, organic chemistry, and biological chemistry. Emphasis is placed on the development of a working knowledge of the concepts and theories in chemistry through board work, student research and virtual experiments.



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SOCIAL STUDIES

Course Description

Social Studies K1

Length: 3 Trimesters

Prerequisites: NONE

The main focus of the Social Studies curriculum is to help students become aware of themselves as individuals (what makes people unique), their culture (traditions and experiences), and community (similarities and differences among people while developing social skills and understanding people's roles and relationships). They will also be introduced to history (the concept of the past in relation to their families, how their community has changed, and measuring and sequencing time using aspects of a calendar). Geography will be introduced through observing and identifying globe features and various human and physical features/environments. Lastly the concept of economics will be introduced as students begin to understand basic human needs for food, clothing, and shelter. That as consumers, they recognize that people create food, clothing, and shelter from natural resources and how they do so (steps involved in making products).

English K2

Length: 3 Trimesters

Prerequisites: NONE

The students will learn about rules (at school and traffic signs) and being good citizens (how to show responsibility). They will be introduced to the United States to understand and identify key vocabulary (freedom) before learning about their own country and community to identify Egypt's national symbols, pledge, and leaders. Students will also be introduced to different workers in the community and how they do their jobs, but more importantly, students will understand how people support each other and how to save resources. As various human and physical geographies will be introduced, different peoples and places on Earth will be studied through the concept of regions. Students will also be measuring time and putting events in sequence by learning about life in the past.

Social Studies 1 SS0001

Length: 3 Trimesters

Prerequisites: NONE

The students will study rules and laws, and how they guide people to live safely and responsibly by identifying what are laws and how laws help communities. Students will also learn how to show respect for the rights of others, and how government services and community leaders help people. Using geographic skills (including maps and mapping), students will learn about the physical and human characteristics of differing places and how people's lives differ due to the resources available. To better understand where they live, students will identify and learn about Egypt's symbols, national holidays, pledges, and laws via being introduced to the United States and pertinent vocabulary. By comparing and contrasting the lives of people today and long ago, students will learn about change, and how it affects people, places, and things. Students will also learn about different cultures and traditions, as well as how immigration adds to culture. The students will study economics and learn about work people do to earn money, and about goods and services.

Social Studies 2 SS0002

Length: 3 Trimesters

Prerequisites: SS0001

Students will begin by studying how and why people govern themselves, and they will learn how a citizen can be responsible in their community. To facilitate learning about geography, a study of maps will ensue to enable students to find locations, identify countries and landforms, differentiate between regions, and to know why seasons and climates differ in different regions. The students will be engaged in studying how people use different lands and the resources thereof. By comparing and contrasting people in the past and present, students will be able to identify changes in people and places over time, as well as how changes came about. Students will study various people and cultures to identify how all people are similar and celebrate cultural differences. Students will study economics and learn how people work to earn and spend money and how children are a part of the economy.

Social Studies 3 SS0003

Length: 3 Trimesters

Prerequisites: SS0002

Students will learn what a community is, the parts of communities (human and physical features), how communities around the world are similar and different, how communities have changed and stayed the same over time, and how communities govern themselves (types of governments). Students will also learn about citizens' rights and responsibilities. To facilitate the studying of communities, students will be engaged in map studies. As a part of the study of communities, different cultures, customs, and heritages will be examined. Students will also examine community economics by understanding how people depend on one another, why communities trade with each other, the different businesses found around the world, and how families earn, spend, and save money.

Social Studies 4 SS0004

Length: 3 Trimesters

Prerequisite: SS0003

Students will begin the year learning how to learn about the different world regions by examining maps and exploring the different attributes of physical and cultural geography. Students will study different regions from a geographic approach (Five Themes of Geography) by looking at a region's location, physical features, history, economic systems, governments, population, societies, cultures, and current issues. The regions of study include Latin America (Mexico, Central America, the Caribbean, and South America), the Pacific Realm, Southeast Asia, South Asia, and Africa south of the Sahara. The students will also learn about different cultures, and about the unique relationship between producers and consumers, and about conservation of energy. The students will also learn about the amazing inventions in the world and take a quick tour to learn about the early people. .

Social Studies 5 SS1005

Length: 3 Trimesters

Prerequisite: SS0004

Students will begin the year learning about the basics of World History, covering Immigration, the Civil war, what kind of changes that happened in the world after the Civil War, going through women suffragists and what did they fight for and why. The students will also learn about World War I and the Great depression that followed, learn about the activists who fought for the Human Rights.

Social Studies 6 SS1006

Length: 3 Trimesters

Prerequisite: SS1005

Students will begin the year focusing on the regions, cultures, and ethnographies of the global community. Emphasis is placed on history of the world's great civilizations, geography, citizenship, the development of man, and the humanities. Students will learn about the world's great ancient civilizations and cultures, including history, art, religion, and military. Students will explore the beginnings of mankind beginning with uncovering the Past, the ancient world starting with Greece, continuing on to the Greek World, the Roman Republic, Rome and Christianity, Ancient Egypt, and Africa. Furthermore, students will develop vocabulary, comprehension and map skills, and be introduced to the history of expansion and the western hemisphere. A variety of instructional techniques will be used in the study of World History, including textbook, map skills, social studies skills, lecture and discussion, class projects, quizzes, and tests.

Social Studies 7 SS1007

Length: 3 Trimesters

Prerequisite: SS1006

Students will begin the year focusing on the regions, cultures, and ethnographies of the global community. Emphasis is placed on history of the world's great civilizations, geography, citizenship, the development of man, and the humanities. Students will learn about the world's great ancient civilizations and cultures, including history, art, religion, and military. Students will explore the beginnings of mankind in the Ancient World, starting with India, ancient China continuing on to China, Japan, the Early Middle Ages, the Later Middle Ages, the Renaissance, Science and Exploration, and Enlightenment. Students will develop vocabulary, comprehension and map skills, and be introduced to the history of expansion and the western hemisphere. A variety of instructional techniques will be used in the study of World History, including textbook, map skills, social studies skills, lecture and discussion, class projects, quizzes, and tests.

Social Studies 8 SS1008

Length: 3 Trimesters

Prerequisite: SS1007

The United States History course is designed to provide non-American students with a well-rounded grasp of American history, politics, and societies, regional and international influence. Although the history of the United States is rather short, its history is eventful and its impact far reaching. This course will introduce the students to the setting, circumstances, religions, nations and the people that contributed to the development and supremacy of the United States today. The course will examine the major themes, events and figures that helped set today's stage. The students will be given a general background in the nation's history via their textbook and supplement reading material, presentations, role-playing games (where students will act out key events or represent historical figures), historical based films, individual and group based projects and student-to-student teaching.

Social Studies 9 SS2009

Length: 3 Trimesters

Prerequisite: SS1008

World History explores the key events and global historical developments since the time of the Byzantine Empire that have shaped the world we live in today. Then we move to focus on the Renaissance Era, the French Revolution, and the Industrial Revolution. The course provides the latitude to range widely across all aspects of human experience: economics, science, religion, politics and law, military conflict, literature and the arts. The course will enlighten connections between our lives and those of our ancestors around the world. Students will uncover patterns of behavior, identify historical trends and themes, explore historical movements and concepts, and test theories. Students will refine their ability to read for comprehension and critical analysis; summarize, categorize, compare, and evaluate information; write clearly and persuasively; express facts and opinions orally; and use technology appropriately to present information.

Social Studies 10 SS2010

Length: 3 Trimesters

Prerequisite: SS2009

This course aims to give students a general yet strong and well-rounded background on world history during the last 300 years by tracing and exploring the key events, socio-political and religious ideologies and intellectual movements and global conflicts. Students will also examine the causes and effects of revolutionary movements in different countries and the role of leaders in influencing world events. They will analyze and interpret new ideas introduced by important thinkers or philosophers; how they helped in changing societies' views and beliefs. The course will also focus on key events that had a strong impact on world politics and government structures such as World War I, World War II and the Cold War.

Introduction to Business SS2111

Length: 3 Trimesters

Prerequisite: None

In this course students learn the standard business areas of accounting, business law, career development, communication, economics and personal finance, entrepreneurship, international business, marketing, management, and the interrelationship of business functions. In addition, students will learn "employability" skills, such as decision making, time management, active listening, and self-direction. Students also learn analytical skills to enable them to evaluate information or interpret different points of view and analyze business case studies. Throughout the course, students are presented with the information in the chapters supported by diagrams, graphics, and photographs that expand and reinforce the business and economic concepts presented in the chapters studied. Numerous activities will be presented to the students to reinforce and enhance the students' understanding of the business and economic concepts presented and to help students connect what they are learning to school and to work. Building business skills presents important concepts that are required for success in school and on the job. Case analysis at the end of each chapter presents a good opportunity to apply the decision making skills learnt. Chapter Review activities and questions are a valuable means of assessing important business and economic terms and concepts and how to apply them. Occasional field trips, research projects, and mock organizational activities enable students to properly apply the information they learnt to relate it to real life situations.

Introduction to Accounting SS2211

Length: 3 Trimesters

Prerequisite: None

This is an introductory course covering the basic accounting cycle for sole proprietorship and merchandising businesses. Students will become aware of career opportunities in accounting and understand the technical skills, knowledge, and educational levels in this field. The course will acquaint the students with the basic knowledge of accounting concepts and procedures to help them gain a better understanding of basic business practices; develop an understanding of the principles and purposes of accounting; develop an understanding of accounting policies, procedures and terminologies; 35 encourage attitudes of accuracy and orderliness; enhance logical and sequential thinking; introduce systems for monitoring and decision making appropriate to the needs of business; and build skills of numeric literacy, communication, enquiry, presentation and interpretation.

Economics SS2311

Length: 3 Trimesters

Prerequisite: None

The main purpose of this course is to get students to understand the common economic terms, concepts, and economic reasoning. Students get acquainted with an introduction to the macro-economics, micro-economics, and international economics. This course exposes students to the nature of the subject and its significance and contribution to the real world. Students will get a sense of economic phenomenon and the foundations on which this social science is based. The course aims at explaining what is meant by markets and their important role played in the real world. The dynamics of demand and supply are understood both in isolation from each other, and in relation to each other. The interaction between the three components: consumer, supplier, and government is being studied to analyze the impact of each on the way the market performs. On the macro level, the students' knowledge is extended to include the effect of market dynamics of individual markets to the bigger picture that encompasses countries and continents. Deriving economic indicators such as employment, inflation, and trade are explained to enable students to appreciate a nation's ability to produce sustainable output. On the international level, students learn the engagement of countries in the international market and the interdependence of the countries in the real world.

Modern Egyptian History 11 SS2411

Length: 3 Trimesters

Prerequisite: SS2009

This course continues to give students a general yet strong and well-rounded background on Egyptian and middle eastern history during the recent years by tracing and exploring the key events, socio-political and religious ideologies and intellectual movements and global conflicts. Students will also examine the causes and effects of revolutionary movements in different countries and the role of leaders in influencing world events. They will analyze and interpret new ideas introduced by important thinkers or philosophers; how they helped in changing societies' views and beliefs. The course will also focus on key events that had a strong impact on world politics and government structures such as World War I, World War II and the Cold War.

Sociology SS2112

Length: 3 Trimesters

Prerequisite: None

Sociology is the study of human relationships, social group behavior, and looking at the "why" of peoples' actions and behaviors. Sociology includes cultural diversity and conformity, basic structures of society, personality formation, individuals and socialization, stages of human development as they relate to sociology, early childhood and adolescent development, crime and deviance, social norms, social stratification, racial and ethnic interactions, gender roles, family structure, the economic and political aspects of sociology, the sociology of public institutions, and collective human behavior both historically and in modern times. In addition, our roles in society and the groups we join or belong to are also examined.

Psychology SS2212

Length: 3 Trimesters

Prerequisite: None

Famous psychology experiments will be investigated and evaluated for the value of the research and data obtained and for their ethical procedures. Other topics include the development of psychology as a science, principles of learning, remembering and forgetting, intelligence, creative thinking, human growth and development, changes in humans in their life span, personality, adjustment mechanisms, sleep, dreams, and sleep disorders, and psychological disorders and treatment.



GLOBAL PARADIGM
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FOREIGN LANGUAGES Course Description

French 3-5 FR0000**Length: 3 Trimesters****Prerequisite: None**

Students will learn how to speak, read, write and understand French. The student is introduced to French culture and life through a situational approach and a wide range of media presentations. The student will know the French alphabets, numbers, animals, fruits, vegetables, and learn some basic verbs in different tenses

French 6 FR1006**Length: 3 Trimesters****Prerequisite: None**

This course introduces students to the language and culture of contemporary France. In addition to intensive language training in the four basic skills - listening, speaking, reading and writing - various aspects of French society and culture will be introduced through audio and video extracts and short texts. The emphasis throughout will be on communicative skills, both oral and written.

French 7 FR1007**Length: 3 Trimesters****Prerequisite: FR1006**

This course builds on and consolidates the language skills acquired in FR1006 course. This will involve the development of written language skills - composition, comprehension, translation, grammar - and spoken language skills - speaking, pronunciation, listening.

French 8 FR1008**Length: 3 Trimesters****Prerequisite: FR1007**

In this course focuses on four modes of expression including: listening, speaking, writing and reading. The main goal of this course is for students to develop, on a daily basis, receptive and productive skills that will allow them to communicate efficiently in French. Through age- and stage-appropriate thematic topics for French such as: daily greetings, family, friends, leisure/hobbies, shopping and restaurants and authentic resources such as songs, movies and documentaries related to French culture, students learn to create more complex sentences using different tenses and moods (present, past tense, subjunctive present, conditional), when writing in short paragraphs and speaking and writing, they will comprehend important ideas and details in contextualized texts and become more accurate in written and oral expression.

French 9 FR2009**Length: 3 Trimesters****Prerequisite: FR1008**

This course continues to develop the student's ability to speak, read, write and comprehend spoken French. Students should achieve the novice-high skill level. Special emphasis is placed on developing communication skills and on increasing awareness of cultures in the French-speaking world.

French 10 FR2010**Length: 3 Trimesters****Prerequisite: FR2009**

In this course an intensive review of French grammar and focus on oral and written language production. Coursework is designed to further develop fluency in the four areas of French.

French 11 FR2011**Length: 3 Trimesters****Prerequisite: FR2010**

IN this course an intensive review of French grammar and focus on oral and written language production. Coursework is designed to further develop fluency in the four areas of French and to prepare students for more advanced language classes in university.

German 3-5 GR0000**Length: 3 Trimesters****Prerequisite: None**

This course aims at acquisition of the usual basic language skills of listening, speaking, reading and writing. Presentation of basic grammar and introduction to the culture of German speaking countries.

German 6 GR1006**Length: 3 Trimesters****Prerequisite: None**

This course introduces students to the language and culture of contemporary Germany. It provides intensive language training in the four basic skills - listening, speaking, reading and writing - and introduces students to relevant aspects of German culture and society.

German 7 GR1007**Length: 3 Trimesters****Prerequisite: GR1006**

An introduction to the nature of the discipline and the fundamentals of language and culture. The main goal of this course is to begin to learn to speak, read, write, and comprehend spoken German at the novice-mid level. Special emphasis is placed on developing communication skills and on increasing awareness of cultures in the German-speaking world.

German 8 GR1008**Length: 3 Trimesters****Prerequisite: GR1007**

A continuation of GR1007. This course continues to develop the student's ability to speak, read, write and comprehend spoken German. Students should achieve the novice-high skill level. Special emphasis is placed on developing communication skills and on increasing awareness of cultures in the German-speaking world.

German 9 GR2009**Length: 3 Trimesters****Prerequisite: GR1008**

A review of fundamentals and a more in-depth examination of the German language leading to student performance at the intermediate level. Continued focus on listening, speaking, reading, and writing, and increasing knowledge of German-speaking cultures. Active use of language skills.

German 10 GR2010**Length: 3 Trimesters****Prerequisite: GR2009**

This course Emphasis on development of reading and discussion skills, with material dealing with German culture. Written exercises, translation and discussion.

German 11 GR2011**Length: 3 Trimesters****Prerequisite: GR2010**

Students continue to develop their proficiency in speaking, listening, writing, and reading by interacting with other speakers of German. Students will understand oral and written messages in the target language and will make level-appropriate oral and written presentations. Students communicate on a variety of topics using complex structures, moving from concrete to more abstract concepts. They will comprehend the main ideas of authentic materials that they read and hear, and are able to identify significant details when topics are familiar.

Spanish 3-5 SP0000**Length: 3 Trimesters****Prerequisite: None**

Students will study the Spanish language and culture. The teacher will deliver instruction in Spanish using, storybooks, songs and CDs. Emphasis will be on communication in the Spanish language. In addition, the course will include family and traditions, numbers from 1-100, weather, seasons, months of the year, dates, and birthdays, feelings, and clothing.

Spanish 6 SP1006**Length: 3 Trimesters****Prerequisite: None**

The aim of this course is to provide an introductory study in the vocabulary and structures of Spanish, and to develop a functional level of communicative proficiency in the language. The course seeks to develop all the basic language skills: listening, speaking, reading and writing. Students will also be introduced to various aspects of the society and culture of Spain and other Spanish speaking countries in Latin America through audio and video extracts and short texts. The emphasis throughout will be on communicative skills both oral and written.

Spanish 7 SP1007**Length: 3 Trimesters****Prerequisite: SP1006**

The aim of this course is to continue with the introductory study in the vocabulary and structures of Spanish, and to develop a functional level of communicative proficiency in the language. The course seeks to develop all the basic language skills: listening, speaking, reading and writing. Students will also be introduced to various aspects of the society and culture of Spain and other Spanish speaking countries in Latin America through audio and video extracts and short texts. The emphasis throughout will be on communicative skills both oral and written.

Spanish 8 SP1008**Length: 3 Trimesters****Prerequisite: SP1007**

Throughout the course students focus on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. There is a strong emphasis on providing context and conversational examples for the language concepts. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries.

Spanish 9 SP2009**Length: 3 Trimesters****Prerequisite: SP1008**

There is an emphasis on increasing opportunities to use the language through speaking, writing, reading and listening. Students will learn new vocabulary and grammar necessary for more sophisticated readings and more complex dialogues. Students will be engaged in a variety of activities to foster a better understanding of the language and culture.

Spanish 10 SP2010**Length: 3 Trimesters****Prerequisite: SP2009**

In this course students will be able to understand oral and written texts in the past and talk about past events. Also the students be able to use the future and imperative for orders, instructions and suggestions. The methodology aims to develop the communicative competence of the learners and fosters their four language skills. It supposes a lot of active participation, sometimes it combines with cross-curricular techniques.

Spanish 11 SP2011

Length: 3 Trimesters

Prerequisite: SP2010

The primary purpose of the course is to prepare students to be college-ready, well-rounded global citizens who can communicate effectively in Spanish and are aware of the cultural influences of the Spanish and Latino heritage at home and abroad. Students in this course build on their Spanish knowledge by learning more complex grammatical structures and become equipped to read and understand a variety of literary selections and gain necessary skills to interact verbally and in writing with Spanish speakers in varied social and business situations. As part of the course, students will be afforded opportunities to read, write, hear, and speak Spanish while they work towards becoming linguistically and culturally literate.



GLOBAL PARADIGM
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Physical Education Course Description

Physical Education k-2PE0001

Length: 3 Trimesters

Prerequisite: NONE

Students in kindergarten through second grade physical education will utilize age appropriate activities to experience extensive large muscle group movements. Physical education instruction shall include movement experience and body mechanics, fitness activities, rhythmic activities, stunts/tumbling, simple games/relays, sport skills and activities and water safety.

Physical Education 3 PE0003

Length: 3 Trimesters

Prerequisite: NONE

The Physical Education in grade 3 will developed mature loco motor, non-loco motor and manipulative skills. They will practice these skills to adapt and refine them to be used in a variety of specific situations, primarily, in sports and games. Students will improve their individual performance and social skills.

Physical Education 4 PE0004

Length: 3 Trimesters

Prerequisite: NONE

The Physical Education in grade 4 stresses the application of motor skills and movement concepts to lifetime physical activities. Proficiency in basic movement forms will lead to enjoyment in more complex skills and activities. Students have developed mature loco motor, non-loco motor, and manipulative skills. They begin to practice these skills to adapt and refine them to be used in a variety of specific situations, primarily, in sports and games.

Physical Education 5 PE0005

Length: 3 Trimesters

Prerequisite: NONE

The goal of the Physical Education program at fifth grade is to continue an active program, in order to enhance physical development and foster participation in physical activity outside the classroom. Movement is critical to proper growth and development at this age and PE class should assist students in developing a healthy body and self-image. Physical activity is important to the physical, emotional, and social maturation of students at this age.

Physical Education 6 PE1006

Length: 3 Trimesters

Prerequisite: NONE

The purpose of this course is to provide students with the knowledge, skills, and values they need to become healthy and physically active for a lifetime. This course addresses both the health and skill related components of fitness which are critical for students' success.

The main goal of this course is to also develop the physical skills necessary to be competent in many forms of movement, knowledge of team sports concepts such as offensive and defensive strategies and tactics, and appropriate social behaviors within a team or group setting in both competitive and non-competitive activity settings. The integration of fitness concepts throughout the content is critical to student success in this course and in the development of a healthy and physically active lifestyle.

Physical Education 7 PE1007

Length: 3 Trimesters

Prerequisite: NONE

Students continue to increase their knowledge and develop skills through participation in individual and team sports. 7th graders will further develop their swimming skills and be introduced to aquatic games. Students will gain a deeper understanding of the five components of fitness through the completion of physical fitness activities and assessments. Students will gain an understanding of game rules while learning to appreciate and participate in lifelong physical activities.

Physical Education 8 PE1008

Length: 3 Trimesters

Prerequisite: NONE

The Physical Education program will provide experiences to develop coordination, control, initiative, self-reliance, self-worth, honesty, and kindness to others. Opportunities will be provided for increased responsibility in planning, organizing and leadership. The importance of fitness through activity will continually be stressed, while offering as wide a skill and game experience as possible.

Physical Education 9 PE2009

Length: 3 Trimesters

Prerequisite: NONE

Early in the fall student's fitness levels will be assessed in the following areas: cardiovascular endurance, flexibility, muscular strength and muscular endurance. From these assessments we will develop a baseline in which we will use to set personal fitness goals. We will explore fitness activities designed to improve all areas of fitness. Our goal is that by the end of the year students will improve their scores on their baseline fitness tests through regular cardiovascular endurance training, muscular endurance training, and activities designed to increase current levels of fitness. Students will be introduced to life-long activities designed to increase their likelihood of exercising in the future. Students will understand the benefits that regular exercise can provide for a person's mental, physical, and social health.

Physical Education 10 PE2010

Length: 3 Trimesters

Prerequisite: NONE

The Physical Education course at GPIS is designed to fulfill the growth, developmental, and behavioral needs of each student through the medium of physical activity and movement. Emphasis is placed on involvement and the opportunity for each to build, cultivate, and maintain a strong and active mind and body through participation in the various activities.



GLOBAL PARADIGM
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ART Course Description

Art kindergarten ART0001

Length: 3 Trimesters

Prerequisite: NONE

The kindergarten art program is designed to introduce students to the joys of creating and viewing art. Students will experience art making as both an individual and collaborative activity. The art curriculum consists of sequential lessons and performance-based projects that include the elements of art such as line, shape, form, color (primary/secondary colors) and texture, select principles of design, references to artists and of art created in different cultures.

Art 1-5 ART0002

Length: 3 Trimesters

Prerequisite: NONE

The elementary art program is a sequential curriculum, developing interaction between each student's creative expressions and their appreciation for art. The Elementary Art Education Program provides maximum opportunity for each student to have hands-on experiences in producing their art. Art education classes at the elementary level will encourage critical and creative problem-solving skills, as well as empathy for historical and contemporary art works. The program is designed to encourage perceptual awareness, through the involvement of all the senses, and allows for the integration of other curriculums, as art readily relates to all educational experiences.

Art 6-8 ART1001

Length: 3 Trimesters

Prerequisite: NONE

The program focuses on a portion of the elements and principles of design. The elements that are explored in class will help to create the backbone of student's middle school art experience. Line, value, color, texture and repetition are all investigated through the various projects completed in class. Students will develop observation and technical skills in drawing, painting, printmaking, sculpture, and various other art mediums.

Art 9-10 ART2001

Length: 3 Trimesters

Prerequisite: NONE

This program is designed for students who like to work in many different artistic areas to discover interests and abilities for further study. Students learn the primary skills of many visual art processes as well as design and creative strategies. Most of the work produced in this class is intended for use as functional objects as well as works of art, and a variety of artistic media are used to develop artistic concepts. Some of the activities in the course include: drawing, painting (watercolor, pastel, acrylic and charcoal) and printmaking techniques and media, including pen and ink and mixed media.

Art 11 ART2002

Length: 3 Trimesters

Prerequisite: NONE

The visual arts is an exploratory program that expands student's art learning in Grade 11. The high school academic program is highly valued as an integral component in the education of our students will further develop an understanding of design fundamentals (elements & principles of art, composition, and media) as well as exploring creative ideas in making art. Students will be able to explore a variety of media, subjects, and techniques to build art skills and knowledge.

No matter skill level or ability, the program will focus on developing their skills. The course begins with focused assignments as drawing, painting, photography, or any other art form that will help in establishing for the second year of studying advanced art.

Art 12 ART2003

Length: 3 Trimesters

Prerequisite: NONE

Advanced art course designed for high school seniors to explore alternative means of arts production through learning about visual culture and various methods of arts creation. The program that takes student from a basic drawing level in year 1 to more advanced understanding and skill development. Drawing, design, photography, 2d and 3d form of arts. Assignments are designed to introduce students to a variety of media and the nature of the creative process. Research, design, fabrication, exhibition, analysis, and critique of student works are all essential components of the curriculum.

The skills, knowledge, and insight gained in this course will help prepare students for any career and life pursuit.



GLOBAL PARADIGM
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Music Course Description

Music kindergarten MU0001

Length: 3 Trimesters

Prerequisite: NONE

Students will participate in a wide range of musical experiences including performance in a Winter Concert program, rhythmic speech, movement, games, singing, playing pitched, improvisation, composition, recognizing music terms and listening to various styles of music.

Music 1-5 MU0002

Length: 3 Trimesters

Prerequisite: NONE

Students will recognize and review various styles of music and music terms as well as explore various composers and their music. They will also participate in a wide range of musical experiences including performance in a Winter Concert program, rhythmic speech, movement, games, and singing, playing pitched and unpitched percussion instruments, improvisation, and composition, recognizing music terms and listening to various styles of music.



GLOBAL PARADIGM
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I.T. Course Description

IT kindergarten IT0001

Length: 3 Trimesters

Prerequisite: NONE

The Kindergarten Grade program will establish and support the foundation for 21st Century technology basics at the elementary level. It will help prepare students to use computers and applications for personal and educational enrichment by introducing the concepts and terminology of technology and the appropriate and effective use of the computer as a learning tool.

IT 1-5 IT0002

Length: 3 Trimesters

Prerequisite: NONE

Today's students must be able to effectively use technology to research, organize, create, and evaluate information. This course provides a foundation in the skills and concepts that define computer literacy in the twenty-first century. From the basics of keyboarding to Internet research techniques, document creation, and digital citizenship, students practice essential skills through individual and team projects. The program also provides elementary school students with foundational concepts in computer science by integrating basic skills in technology with simple ideas about algorithmic thinking.

IT 6-8 IT1003

Length: 3 Trimesters

Prerequisite: NONE

Students will continue effectively use technology to research, organize, create, and evaluate information. This course provides an advancement in the skills and concepts that define computer literacy in the twenty-first century. From keyboarding, Internet research techniques, document creation, photos and videos editing, students practice those skills through individual and team projects. Furthermore, the course aims to develop computational thinking and build student excitement about computing. In addition to learning about programming and algorithms, students build career awareness about computing skills in all fields. Students also improve their knowledge and skill regarding ethics, safety, and security on the Internet.

IT 9-10 IT2004

Length: 3 Trimesters

Prerequisite: NONE

This course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world it also teaches the foundations of computer science and basic programming, with an emphasis on helping students develop logical thinking and problem solving skills.