

GRADE	HUMANITIES AND WORLD COURSE	LANGUAGE ARTS / ENGLISH	MATH	HIGH-INTENSITY PRACTICE	SCIENCE	LANGUAGES	ARTS AND DESIGN	WELLNESS AND MOVEMENT
6	<p>CONTEMPORARY GLOBAL ISSUES & HISTORICAL ANTECEDENTS</p> <ul style="list-style-type: none"> Systems and sustainability Historic civilizations The impact of geography and environment Technological advances Investigation into visual and written primary and secondary sources <p>ELECTIVES: HUMANITIES</p> <ul style="list-style-type: none"> Global Events and Issues Creative Writing Classics 	<ul style="list-style-type: none"> Appreciation of World cultures Personal narratives Why do we tell stories and how do form and structure inform meaning? Dystopian literature Poetry analysis Literary terms and devices Genre studies 	<p>INQUIRY & PROBLEM-BASED MATH</p> <ul style="list-style-type: none"> Positive and negative numbers on a number line Greatest and least common factor Algebraic concepts, including simplifying and evaluating algebraic expressions Multiplying and dividing decimals and fractions Ratio (comparisons and equivalence) Rates and unit rates Percent Coordinate geometry <p>ELECTIVE</p> <ul style="list-style-type: none"> Math Enrichment 	<p>HIP THINKING</p> <ul style="list-style-type: none"> Fluid Intelligence Problem solving Composition of thought Empathy Creativity Critical thinking 	<ul style="list-style-type: none"> Resources of the earth and space Weather, kinetic energy, heat transfer, convection, air pressure River ecology Humans and the environment The future of Earth and other planets <p>ELECTIVES: SCIENCE AND ENGINEERING</p> <ul style="list-style-type: none"> Gardening and Sustainability Creative Computation 	<p>SPANISH AND CHINESE</p> <ul style="list-style-type: none"> Authentic language use from and within contexts Utilizing language to accomplish real world tasks. Focus on advancing written and spoken communication <p>ELECTIVES: LANGUAGE ENRICHMENT</p> <ul style="list-style-type: none"> Spanish: Hispanic Culture and Community Chinese: Modern Times 	<p>ART</p> <ul style="list-style-type: none"> Principles and elements of art Materials and methods Drawing lab Creative process journals Art history Art analysis <p>MUSIC</p> <ul style="list-style-type: none"> Vocal workshop: chorus Instrumentals: brass, woodwinds, strings, guitar Beginner ensemble School of Rock <p>ELECTIVES: DRAMA</p> <ul style="list-style-type: none"> Playmaking Elements of great storytelling: wants, conflict, change <p>ELECTIVES: ARTS AND DESIGN</p> <ul style="list-style-type: none"> Architecture Creative Construction Fiber Arts Graphic Design 	<p>INTERSCHOLASTIC ATHLETICS</p> <ul style="list-style-type: none"> Practice 4x a week and some Saturdays <p>WELLNESS</p> <ul style="list-style-type: none"> Character strengths Exercise science Sex and relationships Drugs/decision making Altruism Mindfulness Mindful eating <p>MOVEMENT</p> <ul style="list-style-type: none"> Rotations at Avenues, Chelsea Piers and local fitness boutiques Functional movement capacities Speed, agility, quickness Functional movements <hr/> <p>ADDITIONAL ELECTIVE</p> <hr/> <p>MASTERY</p> <ul style="list-style-type: none"> Mastery: Play!

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7	<p>THE WORLD CONNECTED</p> <ul style="list-style-type: none"> Journeys of discovery Global connectivity Navigation and encounters between civilizations. Systems and sustainability: culture, government, economics and technology Physical and human geography Geographic literacy Mapping historical information 	<ul style="list-style-type: none"> Exploration of change Dilemmas and change A lens on historical fiction, short story, persuasive writing, narrative-nonfiction and drama Composition: Understanding of organization, purpose, voice, audience and conventions Appreciation of world cultures 	<p>INQUIRY & PROBLEM BASED MATH</p> <ul style="list-style-type: none"> Number systems and theory Ratio and proportional reasoning Integer operations Algebraic expressions Algebraic equations and inequalities Data and statistical reasoning Geometry 	<p>HIP THINKING</p> <ul style="list-style-type: none"> Fluid Intelligence Problem solving Composition of thought Empathy Creativity Critical thinking 	<ul style="list-style-type: none"> Cells and the human body Photosynthesis and respiration Combustion and climate change Structure, function and health of body systems Energy transformation 	<p>SPANISH AND CHINESE</p> <ul style="list-style-type: none"> Authentic language use from and within contexts Utilizing language to accomplish real world tasks. Interpretive listening and reading, presentational speaking and writing; interpersonal communication. <p>ELECTIVES</p> <ul style="list-style-type: none"> Spanish: Hispanic Culture and Community Chinese: Modern Times 	<p>ART</p> <ul style="list-style-type: none"> Principles and elements of art Materials and methods Drawing lab Creative process journals Art history Art analysis (7) Germination of an idea in multiple media (8) Distortion/exaggeration representation Abstraction art (8) Original project design (8) <p>MUSIC</p> <ul style="list-style-type: none"> Vocal workshop: chorus Instrumentals: brass, woodwinds, strings, guitar Advanced ensemble School of Rock <p>ELECTIVES: ART AND DESIGN</p> <ul style="list-style-type: none"> Art History & Art Making Architecture Creative Construction Fiber Arts Graphic Design <p>ELECTIVES: DRAMA</p> <ul style="list-style-type: none"> Playmaking Elements of Great Storytelling: wants, Conflict, Change 	<p>INTERSCHOLASTIC ATHLETICS FOR GRADES 7-8</p> <p>WELLNESS</p> <ul style="list-style-type: none"> Sexual health/relationships/puberty Flourishing/PERMA/positive psychology Resilience Character strengths Growth mindsets Mindfulness techniques Socio-emotional life skills <p>MOVEMENT</p> <ul style="list-style-type: none"> Movement literacy Functional movement Running mechanics Sports-specific skills Sport leadership Nutrition Exercise science Fitness principle
8	<p>CHANGE AND REVOLUTION</p> <ul style="list-style-type: none"> The Industrial Revolution Societies & systems Revolutions Civil rights, human rights Democracy Global citizenship <p>ELECTIVES: HUMANITIES (7 & 8)</p> <ul style="list-style-type: none"> Global Events and Issues Creative Writing Classics 	<ul style="list-style-type: none"> Exchange A lens on Memoir, Poetry, Investigative Journalism, Analytical Essay, Speech Composition; adjusting purpose, tone, audience, and genre Appreciation of national and international classic literature 	<p>INQUIRY & PROBLEM BASED MATH</p> <ul style="list-style-type: none"> Absolute value and systems of inequalities Linear equations and inequalities Linear motion and related word problems Exponents and radicals Solving equations with one and two variables Scientific notation Factorization Quadratic equations and parabola Imaginary numbers Rational algebraic expressions Data & statistical reasoning <p>ELECTIVE (7 & 8)</p> <ul style="list-style-type: none"> Math Enrichment 	<p>CHANGES IN MOTION: POSITION AND ENERGY</p> <ul style="list-style-type: none"> Newton's laws Natural selection and ecosystems Investigation of life and matter Diversity of cells, functions and processes Material and chemical properties and reactions Atomic structure <p>ELECTIVES: SCIENCE AND ENGINEERING (7 & 8)</p> <ul style="list-style-type: none"> Robotics: FIRST Tech Challenge Gardening and Sustainability Creative Computation 	<ul style="list-style-type: none"> Changes in motion: position and energy Newton's laws Natural selection and ecosystems Investigation of life and matter Diversity of cells, functions and processes Material and chemical properties and reactions Atomic structure <p>ELECTIVES: SCIENCE AND ENGINEERING (7 & 8)</p> <ul style="list-style-type: none"> Robotics: FIRST Tech Challenge Gardening and Sustainability Creative Computation 	<p>ADDITIONAL ELECTIVES</p> <p>MASTERY</p> <ul style="list-style-type: none"> Mastery: Play! (7) Mastery Seminar: Introduction to Mastery (8) <p>SOCIAL IMPACT</p> <ul style="list-style-type: none"> Design 4 Impact (7 & 8) 		

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9	<p>GLOBAL HUMANITIES: FOUNDATIONS</p> <ul style="list-style-type: none"> • Interconnectedness of civilizations • World culture • Exchange of ideas • Literary analysis and interpretation • Foundational research techniques <p>WORLD COURSE 9</p> <ul style="list-style-type: none"> • Revolutions • Information Age • Technology and human development • Geography and resources • Civilizations and its discontents • Globalization • Critical map reading • Comparing perspectives through case study 	<p>INTEGRATED MATH 1</p> <ul style="list-style-type: none"> • Word problems • Real, rational and irrational • Linear equations and inequalities • Absolute value • Equations and inequalities • Systems of equations • Exponents and radicals • Quadratic functions • Pythagorean theorem • Parametric equations and vectors 	<p>INTEGRATED SCIENCE 1</p> <ul style="list-style-type: none"> • Structure and organization of matter • Atomic structure and function • Forces and motion • Electricity and electrostatics • Waves and communication systems • Digital information systems 	<p>SPANISH AND CHINESE</p> <ul style="list-style-type: none"> • Authentic language use from and within contexts • Utilizing language to accomplish real world tasks. • Advancing proficient communication • Interpretive listening and reading, presentational speaking and writing; interpersonal communication. 	<p>HIP THINKING</p> <ul style="list-style-type: none"> • Fluid Intelligence • Problem solving • Composition of thought • Empathy • Creativity • Critical thinking 	<p>INTRODUCTION TO THE CREATIVE PROCESS</p> <ul style="list-style-type: none"> • Discover, create, evolve • Artistic literacy • Societal influence on art • Studio practice <p>ELECTIVES</p> <ul style="list-style-type: none"> • Music Theory and Practice Workshop • Vocal Workshop • Advanced Music 	<p>INTERSCHOLASTIC ATHLETICS</p> <ul style="list-style-type: none"> • Practice four times a week and some Saturdays <p>WELLNESS</p> <ul style="list-style-type: none"> • Character strengths • PERMA • Mindful decision making • Exercise science • Sex and relationships • Drugs/decision making • Altruism • Mindfulness techniques • Mindful eating <p>MOVEMENT</p> <ul style="list-style-type: none"> • Various rotations at Avenues, Chelsea Piers and local fitness boutiques (kickboxing, Row House, Soulcycle, etc.) 	<ul style="list-style-type: none"> • Mastery Seminar: Introduction to Mastery 	
10	<p>GLOBAL HUMANITIES: MODERNIZATION AND GLOBALIZATION</p> <ul style="list-style-type: none"> • Diversity • Culture appreciation • Genre study: historical narrative, critical lenses, satire, editorial • Exchange of ideas • Literary analysis and interpretation • Complex narrative structure <p>WORLD COURSE 10</p> <ul style="list-style-type: none"> • Globalization • Modern age • Urbanization • Movement and immigration • Technological era • Society, culture and politics 	<p>INTEGRATED MATH 2</p> <ul style="list-style-type: none"> • Geometric transformations • Angles and structure of geometric proofs • Congruence theorems • Quadrilaterals, medians, angle bisectors • Triangles and their properties • Polygonal regions and their areas • Parallel lines • Volume and surface • Area of solids • Triangle trigonometry • Similarity 	<p>INTEGRATED SCIENCE 2</p> <ul style="list-style-type: none"> • Energy, power and conservation of energy theorem • Modes of energy transformation and modern energy sources • Chemical reactions and combustion • Carbon footprint and other costs of energy use • Global climate system • Interrelationship between humans and their ecosystems • Designing solutions to environmental issues <p>ELECTIVES</p> <ul style="list-style-type: none"> • Advanced physics 				<p>ELECTIVES</p> <ul style="list-style-type: none"> • Design and Engineering Workshop • Visual and Digital Arts Workshop • Music Theory and Practice Workshop • Vocal Workshop • Advanced Music 	<ul style="list-style-type: none"> • Various rotations at Avenues, Chelsea Piers and local fitness boutiques (kickboxing, Row House, Soulcycle, etc.) • FMCs (functional movement capacities) • SAQs (speed, agility, quickness) • Functional movements 	<ul style="list-style-type: none"> • Mastery Workshop (reserved for Mastery students; see application process)

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11	<p>AMERICAN STUDIES: ENGLISH</p> <ul style="list-style-type: none"> Colonial America Revolution Sectionalism Civil War and Reconstruction The Gilded Age Reform movements Imperialism and WWI Boom and bust WWII and the Cold War Post-WWII America and civil unrest <p>ELECTIVES</p> <ul style="list-style-type: none"> Creative Writing Journalism Theory and Practice Vietnam War Modern Middle East 	<p>ELECTIVES</p> <ul style="list-style-type: none"> Innovation and Entrepreneurship: Theory and Practice Build Your Own Business Design 4 Impact 	<p>INTEGRATED MATH 3</p> <ul style="list-style-type: none"> Functions Matrix operations and transformations Trigonometric functions Trigonometric identities Inverse trigonometric functions Polynomials Exponential and logarithmic functions Conic sections Sequences and series Permutation, combination and probability <p>ELECTIVE</p> <ul style="list-style-type: none"> Statistics 	<p>BIOCHEMISTRY</p> <ul style="list-style-type: none"> Conditions for life on earth The chemistry of life Cellular structure and sustaining life Gene expression and genetics Growth and health of multicellular organisms Genetic engineering Evolution and diversity of life <p>ELECTIVES</p> <ul style="list-style-type: none"> Advanced Biology Advanced Chemistry Astronomy Psychology Sociology 	<p>SPANISH AND CHINESE</p> <ul style="list-style-type: none"> Authentic language use from and within contexts Utilizing language to accomplish real world tasks. Focus on written and spoken communication Interpretive listening and reading, presentational speaking and writing; interpersonal communication. 	<p>ELECTIVES</p> <ul style="list-style-type: none"> Film Arts Music Theory and Practice Studio Art Practice Photography Design and Engineering Studio 	<p>INTERSCHOLASTIC ATHLETICS</p> <ul style="list-style-type: none"> Practice four times a week and some Saturdays <p>WELLNESS</p> <ul style="list-style-type: none"> Character strengths Exercise science Sex and relationships Drugs/decision making Altruism Mindfulness Mindful eating <p>MOVEMENT</p> <ul style="list-style-type: none"> Rotations at Avenues, Chelsea Piers and local fitness boutiques Functional movement capacities Speed, agility, quickness Functional movements 	<ul style="list-style-type: none"> Mastery Workshop (reserved for Mastery students; see application process)
12	<p>WORLD LITERATURE: ENGLISH</p> <ul style="list-style-type: none"> Interdisciplinary exploration Engagement with issues of race, class, gender and sexuality Exchange of ideas Global perspectives and traditions Analytical writing Creative nonfiction writing <p>ELECTIVES</p> <ul style="list-style-type: none"> Creative Writing Journalism Theory and Practice Vietnam War Modern Middle East 	<p>SENIOR SEMINARS</p> <ul style="list-style-type: none"> Community Design Incubator Global Inequality and Social Activism Message and Media in Thought Rock, Rap, Revival <p>ELECTIVES</p> <ul style="list-style-type: none"> Innovation and Entrepreneurship: Theory and Practice Build Your Own Business Design 4 Impact 	<p>ELECTIVES</p> <ul style="list-style-type: none"> Calculus Calculus AB Calculus BC Statistics 	<p>ELECTIVES</p> <ul style="list-style-type: none"> Physics C Advanced Biology Advanced Chemistry Astronomy Psychology Sociology 				<ul style="list-style-type: none"> Mastery Seminar: Creativity (reserved for Mastery students; see application process)