

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

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

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

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