

SUBJECT	7	8	9	10	11	12
<b>Math</b>	<b>7T</b> 5 <i>Content Strands</i> : . Number Sense and Operation Strand . Algebra Strand . Geometry Strand . Measurement Strand . Statistics & Probability Strand 5 <i>Process Strands</i> : . Problem Solving . Reasoning & Proof Strand . Communication Strand . Connections Strand . Representation Strand <b>7 (Accelerated)</b>	<b>8T</b> 5 <i>Content Strands</i> : . Number Sense and Operation Strand . Algebra Strand . Geometry Strand . Measurement Strand . Statistics & Probability Strand 5 <i>Process Strands</i> : . Problem Solving . Reasoning & Proof Strand . Communication Strand . Connections Strand . Representation Strand <b>Integrated Algebra (Accelerated)</b>	<b>Integrated Algebra Geometry (H) Geometry</b>	<b>Algebra 2 &amp; Trig (H) Algebra 2 &amp; Trig Geometry (H) Geometry</b>	<b>Math B (H) Math B Intermediate Algebra 4R, 4H</b>	<b>AP Calculus Statistics SCALE Calculus</b>
<b>Social Studies</b>	US & NYS History Canada Mexico State/Federal Government Pre-Columbian to 1830	US & NYS History Canada Mexico State/Federal Government 1830 to Present	<b>Global History</b> . Pre-history to 1750 C.E. <b>Contemporary Global Issues (Elective)</b>	<b>Global History</b> . 1750 to the present <b>Contemporary Global Issues (Elective)</b>	<b>US History/Government AP US History</b>	<b>Participation in Government Economics AP Social Studies Psychology</b>
<b>Science</b>	<b>Life and Physical Science</b>	<b>Earth Science Regents (Accelerated) Life, Physical, &amp; Earth Sciences</b>	<b>Living Environment Regents (H) Earth Science Regents</b>	<b>Chemistry Regents (H) Living Environment Regents</b>	<b>AP Physics (H) Chemistry Regents</b>	<b>AP Biology AP Chemistry Physics Regents</b>
<b>English Language Arts</b>	<b>English 7</b> <b>English - HORIZONS</b> <b>English Collaborative</b> <b>English Support</b>	<b>English 8</b> <b>English - HORIZONS</b> <b>English Collaborative</b> <b>English Support</b> <b>Study Skills 8</b>	<b>English 9</b> <b>Humanities 9/GATE</b> <b>English (H)</b> <b>English Support</b> <b>English Collaborative</b> <b>English ESL</b>	<b>English 10</b> <b>Humanities</b> <b>English (H)</b> <b>English Support</b> <b>English Collaborative</b>	<b>English 11</b> <b>Humanities</b> <b>English (H)</b> <b>English Collaborative</b> <b>English Support</b> <b>AP Lang/Composition</b>	<b>English 12: Literature</b> <b>English 12: Composition</b> <b>Humanities</b> <b>AP Literature</b> <b>SCALE 101/102</b>
<b>Reading</b>	The secondary reading program is designed to assist students in meeting the New York State English Language Arts Standards. Students will develop and apply language skills through the integration of reading, writing, listening, and speaking tasks. Emphasis will be placed on developing skills and strategies necessary for independent reading and for academic success at the secondary level. An emphasis is also placed on recreational and practical reading experiences in order to encourage students to develop the lifelong habit of reading.					
<b>Languages Other Than English</b>	<b>Basic Spanish</b> <b>Basic French</b> <b>Basic Italian</b> <b>Basic ASL</b>	<b>Spanish I</b> <b>French I</b> <b>Italian I</b> <b>ASL I</b>	<b>Spanish I &amp; 2</b> <b>French 2</b> <b>Italian 2</b> <b>ASL 2</b>	<b>Spanish 3</b> <b>French 3</b> <b>Italian 3</b> <b>ASL 3</b>	<b>Spanish 4</b> <b>French 4</b> <b>Italian 4</b> <b>German 4</b>	<b>Spanish 5</b> <b>French 5</b> <b>Italian 5</b>
<b>Computer Technology</b>	Instructional technology is an integral part of the K-12 program. Computers and other related technologies are used as a tool to support and enhance all curriculum areas. Keyboarding is taught in the eighth grade's Computer Information Skills class.					
<b>Career and Occupational Studies</b>	<b>K-5:</b> Career/occupational studies are integrated in CORE subjects; technology is integrated in math and science areas; service learning; entrepreneurial experiences; real life simulations <b>Technology 6-8:</b> Safety, hand tools, problem solving, use of machinery and materials, history of manufacturing, linking with academic curricula, and involving community participation and service <b>Family/Consumer Sciences 7-8:</b> Careers, sewing/needlecraft, families, entrepreneurship, consumerism, decision making, nutrition, service learning, cooking, parenting, child nutrition, child care careers, service learning (community service) and wellness <b>Technology 9-12:</b> Intro to Occupations, Construction/Vocational Carpentry/Woodworking Technology, Automotive Technology/Small Engine Repair/Metals, Electricity/Electronics/A+ Computer Repair, Engineering/Technical Drawing/Architectural Design/Computer Aided Drafting, Graphic Communications, Cooperative Work Study/Career Development/Community Service, NYS Technology Honor Society, Hands-On Field <b>Family/Consumer Science 9-12:</b> Intro to Occupations Home Economics, Child Development, Child Study Lab, Foods, Advanced Foods/Catering - CTE certification achieved, Internship (career exploration) <b>Business 9-12:</b> Web Design, Personal Finance, Business Computer Applications, Intro to Business, Multimedia Computer Applications, Information Technology (MOUS Certification), Accounting, College Accounting, Business Law, Fashion Merchandising & Design, Sports & Entertainment Marketing I, Sports & Entertainment Marketing II, Green & White Store, ESL Keyboarding, Leadership, Business Ownership & Marketing I, Business Ownership & Marketing II, Internship & Careers, Street Law, Cooperative Work Experience Program. College credit is available for many occupational courses - CTE available.					
<b>Library Media</b>	The teaching of library information and research process skills is an integral part of the K-12 curriculum. Through classroom generated projects and assignments, students have access to each school's Library Media Center for information via book materials or through advanced technologies. Students are guided through the research process by the collaborative teaming of the Library Media Specialists and classroom teachers.					
<b>Electives</b>	<b>9-12:</b> Yearbook Production, Research in Science, SCALE Courses, Ecosystems, Frontiers of Science (Astronomy & Genetics), Video Production, Acting, Drama, Journalism, Creative Writing, Mythology, Shakespeare					
<b>Support Services</b>	<b>6-12:</b> Guidance & Counseling <b>K-12:</b> Psychology, Social Work, Health Services, Speech & Language, English as a Second Language (ESL) Students are provided support services to increase their academic performance, to improve their communication skills, to assist in career development and post high school education, to enhance their social and emotional well being, and to ensure an understanding of health maintenance and disease prevention.					



education for today....and tomorrow

# FARMINGDALE SCHOOLS

## K-12 PROGRAMS AND COURSE OF STUDY 2009/2010

SUBJECT	K	1	2	3	4	5	6
<b>Math</b>	<p>5 Content Strands:</p> <ul style="list-style-type: none"> <li>. Number Sense and Operation Strand</li> <li>. Algebra Strand</li> <li>. Geometry Strand</li> <li>. Measurement Strand</li> <li>. Statistics &amp; Probability Strand</li> </ul> <p>5 Process Strands:</p> <ul style="list-style-type: none"> <li>. Problem Solving</li> <li>. Reasoning &amp; Proof Strand</li> <li>. Communication Strand</li> <li>. Connections Strand</li> <li>. Representation Strand</li> </ul>	<p>5 Content Strands:</p> <ul style="list-style-type: none"> <li>. Number Sense and Operation Strand</li> <li>. Algebra Strand</li> <li>. Geometry Strand</li> <li>. Measurement Strand</li> <li>. Statistics &amp; Probability Strand</li> </ul> <p>5 Process Strands:</p> <ul style="list-style-type: none"> <li>. Problem Solving</li> <li>. Reasoning &amp; Proof Strand</li> <li>. Communication Strand</li> <li>. Connections Strand</li> <li>. Representation Strand</li> </ul>	<p>5 Content Strands:</p> <ul style="list-style-type: none"> <li>. Number Sense and Operation Strand</li> <li>. Algebra Strand</li> <li>. Geometry Strand</li> <li>. Measurement Strand</li> <li>. Statistics &amp; Probability Strand</li> </ul> <p>5 Process Strands:</p> <ul style="list-style-type: none"> <li>. Problem Solving</li> <li>. Reasoning &amp; Proof Strand</li> <li>. Communication Strand</li> <li>. Connections Strand</li> <li>. Representation Strand</li> </ul>	<p>5 Content Strands:</p> <ul style="list-style-type: none"> <li>. Number Sense and Operation Strand</li> <li>. Algebra Strand</li> <li>. Geometry Strand</li> <li>. Measurement Strand</li> <li>. Statistics &amp; Probability Strand</li> </ul> <p>5 Process Strands:</p> <ul style="list-style-type: none"> <li>. Problem Solving</li> <li>. Reasoning &amp; Proof Strand</li> <li>. Communication Strand</li> <li>. Connections Strand</li> <li>. Representation Strand</li> </ul>	<p>5 Content Strands:</p> <ul style="list-style-type: none"> <li>. Number Sense and Operation Strand</li> <li>. Algebra Strand</li> <li>. Geometry Strand</li> <li>. Measurement Strand</li> <li>. Statistics &amp; Probability Strand</li> </ul> <p>5 Process Strands:</p> <ul style="list-style-type: none"> <li>. Problem Solving</li> <li>. Reasoning &amp; Proof Strand</li> <li>. Communication Strand</li> <li>. Connections Strand</li> <li>. Representation Strand</li> </ul>	<p>5 Content Strands:</p> <ul style="list-style-type: none"> <li>. Number Sense and Operation Strand</li> <li>. Algebra Strand</li> <li>. Geometry Strand</li> <li>. Measurement Strand</li> <li>. Statistics &amp; Probability Strand</li> </ul> <p>5 Process Strands:</p> <ul style="list-style-type: none"> <li>. Problem Solving</li> <li>. Reasoning &amp; Proof Strand</li> <li>. Communication Strand</li> <li>. Connections Strand</li> <li>. Representation Strand</li> </ul>	<p>5 Content Strands:</p> <ul style="list-style-type: none"> <li>. Number Sense and Operation Strand</li> <li>. Algebra Strand</li> <li>. Geometry Strand</li> <li>. Measurement Strand</li> <li>. Statistics &amp; Probability Strand</li> </ul> <p>5 Process Strands:</p> <ul style="list-style-type: none"> <li>. Problem Solving</li> <li>. Reasoning &amp; Proof Strand</li> <li>. Communication Strand</li> <li>. Connections Strand</li> <li>. Representation Strand</li> </ul>
<b>Social Studies</b>	Child as individual member of family, school, community, and world	Self-identity/social interaction skills Family/school as social/cultural, political, economic, geographic, historic institutions	Local community, urban, suburban, rural Self-identity Participatory citizenship Social interaction	Communities around the world Geography and the community	Local history (LI, NYS) Local Government (LI, NYS) Overview of US History Participatory Citizenship	Economics & Geography of: . United States . Canada . Latin America	Economics & Geography of: . Western Europe . Eastern Europe . Mediterranean
<b>Science</b> (Spiral curriculum in which depth of study increases)	Weather Senses Waterplay Magnets Plants/Animals Observe/Discuss/Record Living/Non-Living Things Seasons Shadows	Air Ecology Health/Safety Measurement Plants/Animals Properties Seasons Senses Water Weather	Dinosaurs Ecology Human Body Magnets Matter/Energy Measurement Plants/Animals Seasons Sun/Earth/Moon Weather	Animal Behavior Buoyancy Ecology/Food Chains Forms of Energy Interactions Metric Measurement Plant Parts Pollination Properties/States of Matter Weather/Water Cycle	Ecology Electricity Food Chains Geology Life Cycles Metric Measurement Plants/Animals Powders/Crystals Rocks/Minerals Scientific Method States of Matter	Ecosystems Electricity Health Human Body Systems Physical/Chemical Changes Plant Responses Research Scientific Method Simple Machines Vertebrates/Invertebrates	AIDS Animals Elements/Compounds Energy Environmental Studies Forces Light Looking at Liquids Research Scientific Method
<b>Language Arts</b> (Students will read, write, listen and speak for: information and understanding; literary response and expression; critical analysis and evaluation; and social interaction)	Oral Expression Attentive Listening Language Development Letter Identification and Formation Rhyming Phonemic Awareness Sight Vocabulary Concepts About Books & Print Literature Appreciation & Comprehension Modeled, Shared, Guided & Ind. Reading Developmental Writing	Active Listening Word Identification Sight Vocabulary Reads with Fluency Modeled, Shared, Guided & Ind. Reading Reading Comprehension Literature Appreciation Reads/Responds to a Variety of Genres Spelling Manuscript/Cursive Writing Writing Process	Active Listening Word Identification Vocabulary Development Modeled, Shared, Guided & Ind. Reading Reading Comprehension Literature Appreciation Reads/Responds to a Variety of Genres Spelling Manuscript/Cursive Writing Writing Process Begin Notetaking	Active Listening Structural Analysis Vocabulary Development Reading Comprehension Engagement in Silent Reading Guided Reading Literature Appreciation Reads/Responds to a Variety of Genres Spelling Cursive Writing Writing Process Notetaking	Active Listening Structural Analysis Vocabulary Development Reading Comprehension Engagement in Independent Reading Partner Reading/Literature Circles Reads/Responds to a Variety of Genres Spelling Writing Process Notetaking Well Developed Written Responses	Active Listening Word Recognition Skills & Strategies Vocabulary Development Reading Comprehension Engagement in Independent Reading Partner Reading/Literature Circles Reads/Responds to a Variety of Genres Spelling Writing Process Notetaking Well Developed Written Responses	Active Listening Word Recognition Skills & Strategies Vocabulary Development Reading Comprehension Engagement in Independent Reading Partner Reading/Literature Circles Reads/Responds to a Variety of Genres Spelling Writing Process Notetaking Well Developed Written Responses
<b>Reading</b>	The elementary level reading program is designed to assist students in meeting the New York State English Language Arts Standards. Students will develop and apply language skills through the integration of reading, writing, listening, and speaking tasks. Emphasis will be placed on developing skills and strategies necessary for independent reading and for academic success at the elementary level. An emphasis is also placed on recreational and practical reading experiences in order to encourage students to develop the lifelong habit of reading.						
<b>Languages Other Than English</b>							Intro to Foreign Languages: French, Spanish, Italian, ASL
<b>Music</b>	K-6: Students will learn the elements of music - form, tempo, dynamics, melody, meter, timbre, and rhythm. Integrated opportunities - Band, Jazz Band, Chorus, Orchestra, Recorder Ensemble and NYS School Music Association Festival (NYSSMA) 7-8: General Music, Band, Jazz Band, Orchestra, Chorus, NYSSMA, Select Chorus 9-12: Theory, AP Theory; Marching, Concert, and Jazz Bands; Orchestra and String Quartet; Mixed and Women's Choruses, Barbershop Quartet, and Vocal Jazz Ensemble; Woodwind Quintet, Brass Ensemble, and Sax Quartet; NYSSMA						
<b>Art</b>	K-6: Students will learn the elements of design - color and value, line, shape and form, space, and texture. Students will experience the Principles of Design - balance, movement and rhythm, unity, emphasis and pattern. Some of the areas of focus will include art history, multiculturalism, self-expression through the study of materials and resources. Integrated opportunities - Art & Photography Clubs 7-8: Art and Studio in Art. Students will continue their study of the Elements and Principles of Design through diverse projects. Extra-Curriculum Clubs: Scenery, Mural, Concert Decorating, Art Club, Photo Club, Olympics of the Visual Arts 9-12: Studio Art; Advanced Courses - Advertising Design, Fashion Design, Drawing/Painting, Creative Crafts, Photography, Computer Imaging, Pre AP & AP Art, and Video Production; Extra-Curricular: National Art Honor Society, Mural Club, Art Club, Digital Photography						
<b>Physical Ed</b>	K-6: Health and fitness, motor skills, movement, games, sports, safety, cooperation, teamwork, dance and adventure-based programming 7-12: Team sports, Project Adventure, individual sports, swimming and water safety, lifeguard training, personal fitness for life, dance, sports medicine and self-defense						
<b>Health</b>	K-6: Safety, wellness issues (hygiene, nutrition, disease), self-esteem, relationships, families, parenting, tobacco, drug and alcohol use prevention, AIDS, human development, pregnancy prevention, violence prevention, Second Step (K-2), new curriculum being modeled at SEM, and wellness awareness effort in collaboration with physical education						
<b>HORIZONS/G&amp;T</b>	3-5: Three semester projects address NYS Standards - Interdisciplinary, Odyssey of the Mind, Independent Study 6-8: This program is delivered through a team approach 9: Independent study course for community service						
<b>Special Education</b>	K-12: Special Education classes, related services and integrated co-teaching programs are available at all levels. Appropriate special education services are provided for the preschool population.						