



ORANGE UNIFIED SCHOOL DISTRICT

Curriculum Council

Agenda

January 28, 2014

Board Room 2

3:30 – 5:00

1. Welcome **Michael L. Christensen**

2. Local Control Funding Formula (LCFF) Update **Gunn Marie Hansen**
 - **LCAP**
 - **Survey**

3. Study Session **Kathy Boyd**
 - ***CTE/STEAM across OUSD***

6. Curriculum & Instruction Share-Out **Elsie Simonovski**
 - ***Pacing Guides Survey***

 - ***Secondary Math Curriculum Guide(s) Update*** **Helen Barney**
 - **Appendix A Group Discussion** **Cathleen Corella**

7. Closing **Cathleen Corella**

**2013-2014
LCFF Supplemental Allocation
Board Presentation**

Accountability & Special Programs
Educational Services Division
January 23, 2014

LCFF Supplemental Funds

Step 1

- Budget office determined LCFF Supplemental Funds by each school site

Step 2

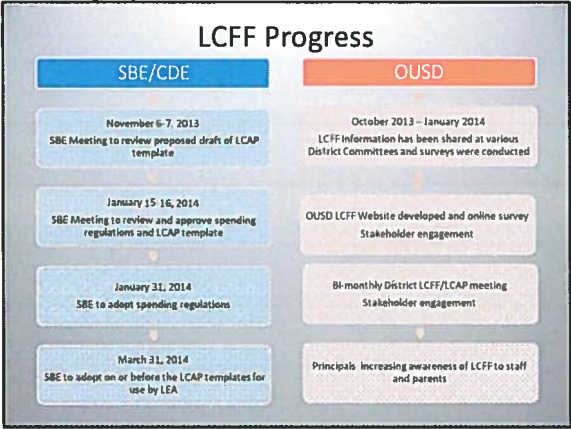
- Principals obtained input from staff and parents on how to spend the funds

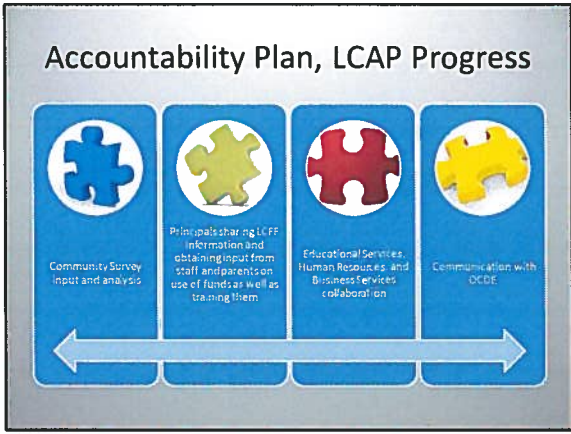
Step 3

- Principals took input from stakeholders on use of funds to School Site Council for additional input and approved proposal

**Summary of 2013-14
LCFF Supplemental Funds**


- Technology Devices
- Professional Development
- Intensive Interventions
- Instructional Materials

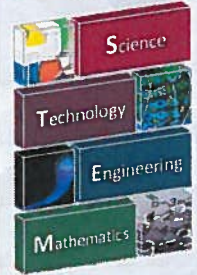




- ### Next Steps for 2014-15
- Share ongoing stakeholder input
 - Develop LCAP
 - Obtain Board Approval of the plan and budget by end of this school year

What Is STEM?






The Science, Technology, Engineering & Mathematics fields are collectively considered core technological underpinnings of an advanced society, according to both the National Research Council and the National Science Foundation.

The term **STEM** is commonly used in relation to the nation's economic competitiveness.

"HELP WANTED" in STEM



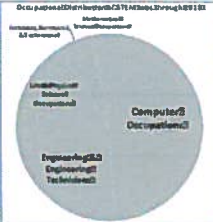
STEM jobs are growing more rapidly than other fields (2008 - 2018)

Non-STEM +10%

US STEM +17%

CA STEM +19%

80% of STEM jobs will be in Computing & Engineering



Source: Arthur F. Connolly, "Help Wanted: STEM Jobs in the Future," Center for the Future of Learning, October 21, 2013

So at what grade level should we start??

Children in elementary school will change not just jobs, but their entire careers five times over their working years.

- Gartner Group, 1995
- The job you perform today will no longer be done.
- The job you perform tomorrow has not yet been invented.

There aren't two worlds
-- education and work,
there is one world --
life.

Willard Wirtz

Reconciling Opposites:
Two Sides of the Same
Coin

<p>Knowledge Academics</p>	<p>Skill Career & Technical Education, Arts, Engineering, and Computer Science</p>
<p>Liberal Arts/ White Collar Jobs</p>	<p>Practical Arts/Blue Collar Jobs</p>

Tell me, and I forget
Show me, and I remember
Let me do, and I understand

—After Confucius, China, 5th century BC

What is new in 21st century education is the mainstreaming of engineering, arts, and computer science processes within the academic context—**integration of practical and applied arts.**

STEM/STEAM/CTE & ROP/
CAREER PATHWAYS in OUSD
<http://www.orangeusd.org/CTE/courses.asp>

Chevron at OHS

- The Envision Program (1 year pilot)
- Training teachers and providing materials
- A living lab – putting a solar panel on campus, virtual interface that students can access and collect to analyze data
- Supplying learning kit materials and lesson plans (Energy Conservation, Solar Energy, etc)

15 Career Sectors in CALIFORNIA

- Driving forward so that students have access to all types of electives either at their school or through programs like CAPP (at SCC and SAC)
- Creation of a video to be used for marketing and advertisement when students choose their electives at the secondary level

ROBOTICS in OUSD

- **High Schools**
 - EMHS
 - Serrano
 - Nohl Canyon
- **Middle Schools**
 - Cerro Villa
 - Yorba
 - Crescent
 - Sycamore
 - West Orange
- **Elementary Schools**
 - McPherson Magnet
 - Cambridge
 - Handy
 - Panorama
 - Anaheim Hills

Energy & Utilities in OUSD

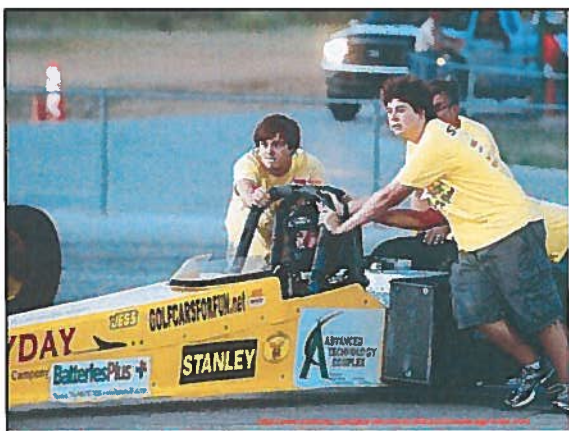
- High Schools
 - Orange – Chevron
 - Canyon – Solar Boat
- Middle Schools
 - Portola – PEAK
- Elementary Schools
 - Cambridge – PEAK

4/6/10 YEAR PLANNING

- In the past presented as a 9th grade activity
- Moving forward....
 - Student planning at the middle school level
 - Student exposure at the elementary school level

OUSD Students and.....

- STEM
- STEAM
- CTE (Career Technical Education)
- ROP (Regional Occupation Program)
- CAREER PATHWAYS



Things are happening

- UCI Energy Invitational – OHS
- oc Maker Challenge – EMHS
- C-STEM – OHS and McPherson
- New Pathways
 - Aviation Science
 - Aviation I (Ground Pilot School) - CHS
 - ICT (Information Communication Technology)
 - CHS/VPHS
 - OHS/EMHS
 - McPherson Magnet



Finance & Business

Accounting Loan Officers **Account Clerks** Payroll Clerks **Cost Estimators** Budget Analysts **Controllers** Insurance Appraisers **Assessors** Bookkeepers **Auditors** Financial Analysts **Personal Financial Advisors** Tax Preparers **Financial Examiners** Bank Tellers **Loan Counselors** Claims Examiners **Credit Analysts** Loan Officers **Credit Managers** Internal Auditors **Revenue Agents** Business Teachers **Actuaries** Account Collectors **Budget Analysts** Escrow Officers **Appraisers** Purchasing Agents **Credit** Loan Officers **Financial and Management Analysts** Insurance Appraisers **Personal Financial Advisors** Underwriters **Tax and Claims Examiners** Financial Planners **Securities Officers** Stock Brokers **Economists** Treasurers **Budget Analysts** Purchasing Agents **Arbitrators/Mediators**



Health Science & Medical Technology

Biomedical Chemists **Biostatisticians** Biotechnology Assistants **Biotechnology Technicians** Geneticists **Biomedical Technicians** Quality Assurance/Control Technicians **Biotechnology Scientists** Transporters **Bioinformatics Specialists** Clinical Trials Researchers **Medical Laboratory Aides** Radiology Technologists **Biotechnology Scientists** Radiologists **Medical Laboratory Technicians** Cardiology Technologists **Biotechnology Engineers** Medical Laboratory Assistants **Clinical Medical Technologists** Health Educators **Medical Records Clerks** **Health Unit Coordinators** Medical Coders **Telehealth Technicians** Medical Librarians **Medical Record Technicians** Medical/Hospital Receptionists **Health Services Administrators** Morticians **Hospital/Nursing Home Administrators** Medical Transcriptionists **Industrial Hygienists** Health Educators **Central Supply Aides** Environmental Services Assistants **Central Supply Technicians** Pharmacists **Environmental Services Technicians** Materials Management Supervisors **Environmental Health Specialists** Nursing Home Administrators **Physical Therapy Aides** Dental Hygienists **Medical Assistants** Dentists **Exercise Physiologists** Physical Therapists **Physician Assistants** Emergency Medical Technicians **Fitness/Aerobics Instructors** Registered Physical Therapy Aides **Licensed Vocational Nurses/Registered Nurses** Pharmacy Technicians **Certified Nurses Assistants** Respiratory Therapy Aides



Hospitality, Tourism & Recreation

Dietary Aides Dietary Chefs **Personal Chefs** Food Scientists **Food Product Testers/Tasters** Line Cooks **Dietetic Technicians** Registered Dietitians **Food Product Developers** Sous/Executive Chefs **Food Stylists** Pastry Chefs **Bakers** Caterers **Wait Staff** Food Service Directors **Food Designers** Food Expeditors **Recreation Leaders** Event/Wedding Planners **Theme Park Staff** Flight Attendants **Concert Promoters** Travel Company Owner/Managers **Club/Resort/Hotel Managers** Travel Agents **Cruise Ship Staff** Interpreters/Translators **Sports Officials**



Information Communication Technologies

Word Processing Operators **Technical Writers** Software Engineers **Chief Technology Officers** Webmasters **Administrative Assistants** Database Administrators **Business Teachers** Information System Architects **Web Page Developers** Computer Operators **Computer Graphic Artists** Web Architects **Graphic Designers** Multimedia Producers **Corporate Communication Managers** Software/Hardware Installers **Software Architects** Network System Analysts **Computer Security Specialists** Network System Assistants **Network Engineers** Telecommunications Specialists **Network Administrators** Data Communications Specialists **Programmers/Software Technicians** Operating System Designers **Software Applications Support** Computer Software/Hardware Engineers



Manufacturing & Product Development

Publishers Editors **Graphic Artists/Designers** Desktop Publishing **Production Managers** Webmasters **Network Engineers** Industrial Designers **Commercial Photographers** Special Effects Animators **Multimedia Producers** Web Designers **Publication Managers** Special Effects Journeymen **Assemblers** Design Engineers **Tooling Technicians** Tooling Engineers **Computer Programmers** Mechanical Engineers **Industrial Technology Educators** Machine Operators **Maintenance Mechanics** Welders **Boilermakers** Blacksmiths **Ironworkers** Metallurgists **Robotics Technicians** Quality Control Inspectors **Fabrication Designers** Plastics Assemblers **Composite Fabricators** Manufacturing Engineers



Marketing, Sales & Service

Software Engineers **Copywriters/Designers** Entrepreneurs **Interactive Sales Engineers** Business Teachers **Web Site Developers** Customer Service/Customer Support Representatives **Franchisees** Marketing Managers **Buyers** Business Owners **Account Executives** Event Planners **Sales Representatives** Route Sales **Shipping and Receiving** Economists **Marketing Research** International Trade Specialists **Telemarketers** Retail/Wholesale Buyers **Real Estate** Securities **Insurance** Books **Product Branding** Pharmaceutical Supplies **Public Relations** Advertising



Public Service

Child Care Foster Care **Youth Workers** Social Workers **Educational Counselors** Mental Health Counselors **Marriage and Family Counselors** Psychologists **Psychiatrists** Crisis Intervention **Emergency Services** Disaster Teams **Substance Abuse and Behavioral Disorder Counselors** Judges **Elected Officials** Border Control **ATF /CIA /DEA /FBI Agents** Fish and Game Wardens **Customs Inspectors** Criminologists **Lawyers** Paralegals **Legal Clerks** Court Reporters **Diplomatic Service** Police Officers **Sheriff Deputies** Animal Control **Fire Fighters** Correctional Officers **Fire Inspectors** Paramedics **Lifeguards** Ski Patrol **Private Investigators** Crime Scene Investigation **Security Guards** Railroad Police



Transportation

Ground Support Crews **Freight and Baggage Handlers** Ticket Agents **Flight Attendants** Dispatchers **Airframe and Power Plant Technicians** Air Traffic Controllers **Pilots** Aviation Engineers **Aircraft Detailers** Mechanics Assistants **Collision Repair Technicians** Auto Detailers **Refinish Technicians** Glass Installers **Auto Damage Appraisers** Claims Adjusters **Parts Specialists** Vehicle Restoration **Vehicle Painters** Lube, Line, and Smog Technicians **Service Writers** Diesel Engine **Small Engine** Parts Runners **Parts and Service Counter Technicians** After-Market Sales **Shop Foremen** Manufacturers Representatives **Motorcycle, Heavy Equipment, and Farm Equipment Mechanics**



Agriculture & Natural Resources

Landscape Managers Economists Ag Marketing Sales Farm Realty Banking Appraisers Aquaculture Floral Shop Owners Timber Managers Fisheries Managers Farm Managers
Accounting Crop Farmers Irrigation Managers Product Brokers/Buyers Agricultural Lending Officers Equipment Fabricators Land Leveling Irrigation Engineers Equipment Operators
Welding/Metal Fabrication Power System Mechanics Ag Chemicals Irrigation System Designers Precision Farming Technicians Trouble Shooting Enology Waste Water Specialists Plant
Propagation Plant/Animal Genetics Agriculture Pest Management Hydraulic Engineers Food Processing Production Management Biotechnology Animal Breeding Artificial Insemination
Fishing Fish Farming Cattle Ranching Horseshoeing Pack Station Poultry Farming Meat Inspectors Animal Nutritionists Zoo and Veterinary Work and Management Animal Trainers
Park Rangers Ski Resort Managers Firefighters Surveyors Logging Range/Timber Managers Hydrologists Campground Managers Ecologists Guides Grounds Workers Environmental
Engineers Forest Resources Technologists Floriculture Landscape Design Tree Trimming Entomologists Plant Curators Floral Designers Nursery Production Greenhouse Work
Landscape and Grounds Keeping Golf Course and Park Management Plant and Turf Propagation and Sales Retail Nursery Work Soil Conservation Plant Biologists Horticulturists
Entomology Irrigation Soil Nutrition Turf Grass Production Viticulture Pest Control Advisors Botanists Ag Field Representatives Orchardists



Arts, Media & Entertainment

Graphic Designers Lighting Technicians Film Loaders Publicity Directors Cutters/Fitters/Seamstress Fine Artists Media and Design Arts Technicians Photographers Special Effects
Coordinators Videographers Camera Operators Animators Sound Technicians Make-Up Artists Sign Painters Actors Announcers Radio/Television Broadcasters Music
Directors/Conductors Dancers Voice-Over Artists Fashion Models Entertainers Musicians Film Composers Stunt Doubles Composers Choreographers Production Managers
Stage Managers Costume Designers Set Designers Publishers Entertainment and Web Site Technicians Performance Tour Managers Camera Operators Sound Engineers Producers
Sound Design Editors Visual Effects Coordinators



Building Trades & Construction

Iron and Steel Workers Roofers Structural Engineers Building Inspectors Painters and Paperhangers Brick, Block, and Stone Masons Dry Wall and Ceiling Installers Plaster and Stucco
Specialists Plumbers Electricians Heating Refrigeration Cooling Piping Specialists Surveying Iron Workers Welding Rough Carpenters Heavy Equipment Operators Cement
Masons Mechanical and Civil Engineers/Technicians Estimators Millwork Furniture Making Cabinetmaking Rough or Finish Carpentry CNC Technicians/Engineers Carpenters Floor and
Tile Installers Glaziers Insulation Workers Plumbers Pipefitters Surveyor



Education, Child Development & Family Services

Infant Caregivers Preschool Teachers Parent Educators Child Psychologists Teacher's Aides Head Start Teachers After-School Program Supervisors Family Child Care Supervisors
Tutors Adoption or School Counselors Child Protection Social Workers Credit Counselors Consumer Affairs Directors Financial Planners Product and Development Researchers Product
Demonstrators Property Management Public Relations and Customer Service Representatives Teacher's Aides Speech Therapists Community Workers Special Education Teachers
Counselors or Administrators Personal/Home Care Aides Social Workers Elementary, Secondary or Postsecondary Teachers Family Advocates Community Organization Directors Special Needs
Case Workers Elder Care Coordinators Geriatric Group Home Administrators



Energy & Utilities

Power Meter Installers/Readers Appliance Repair Utility Technicians Instrument Calibration Electrical Engineers Major Appliance Designers Energy Management Environmental Pollution
Control Waste Management Natural Gas, Chemical, Petroleum, and Nuclear Engineers Energy/Environmental Technicians and Engineers Energy Management Technicians/Engineers Utilities
Technicians/Engineers Power Grid Engineers Waste Technicians/Engineers Facility Design Engineers Industrial Facilities Technicians/Engineers Gas, Chemical and Nuclear Engineers Utilities
Technicians Water Systems Technicians Solar Technicians/Engineers Electrical Technicians/Engineers Facilities Technicians/Engineers Industrial Maintenance Technicians/Engineers Hvac
Technicians/Engineers



Engineering & Design

Engineering Aides Architects Drafters/Designers Surveyors Structural Engineers Civil Engineers Industrial Designers/Estimators Instructors Computer Engineers Electricians
Electrical Engineers Computer Repair Computer Networking Technicians Telecommunication Engineers Network Administrators Cad/Cam Technicians Civil Engineers Drafters/Designers
Architects Structural Engineers Oceanographers Software Engineers Electricians/Electronics Industrial Engineers/Technicians Telecommunications Facility Construction/Maintenance
Environmental Planners Meteorologist Ecologists Hydrographers Park Naturalists Survey/Mapping Technicians/Engineers Environmental, Chemical, and Civil Engineers



Fashion & Interior Design

Fashion Designers Pattern Makers Fashion Illustrators/Photographers Visual Merchandisers Fashion Buyers Sales Associates Fashion Advisors Seamstress/Alterations Showroom
Assistants Stylists Interior Designers Visual Merchandisers Design Assistants Set Decorators Preservationists Facility and Space Planners Computer Aided Design (Cad) Specialists
Photo Stylists Ergonomic Consultants Kitchen, Bath, Window, Lighting, Wall or Floor Covering Specialists

6th Grade Math Curriculum Map

Date/ Timeframe	Unit	Primary Standards	Holt Reference	Resources
3 days Aug 20-22	New School Year Intro			
24 days Aug 25 – Sep 26	1. Whole Number and Prime Time	NS 2 Divide Multi-digit numbers NS 4 GCF, LCM (Distributive property to be covered in a later unit) EE 1 Write and evaluate exponent expressions	3-1, 3-2, 3-3 Problem Solving 3-2, 3-3 Challenge 3-2 1-2	Need dividing activities GA Unit 1 pg 14-15 Secret Number
25 days Sep 29 – Oct 31	2. Fractions, Decimals & Percents	EE 1 Write and evaluate exponent expressions NS 1 Mult and Division of fractions NS 3 Operations with decimals RP 3c Possibly include pie charts	4-4, 4-5 TE page 186b Activity page 186-187 4-7, 4-8 2-1, 2-6 6-1 through 6-3 for background	Expand 1-2 to include fractions http://robertkaplinsky.com/work/mini-me/ NY Dept Ed Share My Candy (6 th grade) http://schools.nyc.gov/Academics/CommonCoreLibrary/UnitsStudentWork/default.htm Shopping for 10 (Ricardo) NY Dept Ed Stuffed with Pizza (5 th Grade) Time for Recess (5 th Grade) http://schools.nyc.gov/Academics/CommonCoreLibrary/UnitsStudentWork/default.htm http://www.insidemathematics.org/common-core-math-tasks/5th-grade/5-2007%20Cindy's%20Cats.pdf

6th Grade Math Curriculum Map

Date/ Timeframe	Unit	Primary Standards	Holt Reference	Resources
28 days Nov 3 – Dec 19	3. Ratios and Proportions	RP 1 Ratio language RP 2 Unit Rate RP 3b Unit Rate Problems 3c Percent of quantity 3d Convert measurement units	5-1, 5-2 5-2 Problem Solving 4-9, 5-5 6-4, 6-5 Activity page 297	http://www.mathalicious.com/lesson/newtritional-info/ http://threeacts.mrmeyer.com/sugarpackets/ http://robertkaplinsky.com/work/ticket-option/ http://robertkaplinsky.com/work/better-pizza-deal/ http://robertkaplinsky.com/work/hybrid-cars/ http://robertkaplinsky.com/work/carrots/ http://robertkaplinsky.com/work/throw-a-baseball/ http://robertkaplinsky.com/work/car-warranties/ http://robertkaplinsky.com/work/lemonade-stand/ http://robertkaplinsky.com/work/peanut/
27 days Jan 12 – Feb 20	4. Negative Numbers and Four Quadrant Graphing	NS 5 Integers NS 6a Opposites on a Number Line NS 6b Ordered Pairs NS 6c Coordinate Plane NS 7 a-d Inequality statements Order for rational # Absolute Value Comparisons of Absolute Value NS 8 Solve problems by graphing G 3 Draw polygons on coordinate plane EE 5 Solving an equation as a process of answering a question EE 8 Inequalities	2-1 Problem Solving 2-1 2-6, 3-6 1-7, 1-11 Problem Solving 11-5, 11-6, 11-7	http://robertkaplinsky.com/work/rides/ http://www.yummymath.com/wp-content/uploads/extreme-hot-and-cold.pdf http://robertkaplinsky.com/work/temperature-drop/ http://www.illustrativemathematics.org/illustrations/673

6th Grade Math Curriculum Map

Date/ Timeframe	Unit	Primary Standards	Holt Reference	Resources
25 days Feb 23 – Mar 27	5. Expressions and Equations	RP 3a Make tables of equivalent ratios EE 2a, b, c Variable Expressions Identify expression using math terms Evaluate expressions EE 3 Properties EE 4 Identify equivalent expressions (Combining like terms) EE 6 Use variables in solving problems EE 7 Writing and Solving Equations EE 9 two variable problems NS 4 GCF, LCM (Distributive Property)	1-3, 1-4, 1-5, 1-6 1-7, 1-11 Problem Solving 2-7, 2-8	http://www.illustrativemathematics.org/illustrations/806 Dance and Text http://schools.nyc.gov/Academics/CommonCoreLibrary/TasksUnitsStudentWork/default.htm GA Unit 3 pg 11-12 Conjectures about Properties

6th Grade Math Curriculum Map

Date/ Timeframe	Unit	Primary Standards	Holt Reference	Resources
25 days Apr 6 – May 8	6. Geometry	<p>G 1 Area of Triangles, special quad.</p> <p>G 2 Volume of Rectangular prism</p> <p>G 3 Draw polygons on coordinate plane</p> <p>G 4 Nets for 3-D figures</p>	<p>9-6, 10-3, 10-4, 10-6 Activity page 504</p> <p>10-7, 10-8, 10-10</p>	<p>http://robertkaplinsky.com/work/fuel-tank/</p> <p>http://robertkaplinsky.com/work/foil-prank/</p>
19 days May 11 – Jun 4	7. Statistics	<p>SP 1 Recognize a statistical question</p> <p>SP 2 Data set Distribution</p> <p>SP 3 Measure of Center vs Measure of Variation</p> <p>SP 4 Dot Plots, Histograms, Box plots</p> <p>SP 5 a-d Reporting observations of a data set</p> <p>Nature of attribute under investigation</p> <p>Quantitative measures</p> <p>Choice of measures</p>	7-1	<p>http://www.illustrativemathematics.org/illustrations/1199</p> <p>http://map.mathshell.org/materials/tasks.php?taskid=396&subpage=expert</p> <p>http://map.mathshell.org/materials/tasks.php?taskid=383&subpage=apprentice</p> <p>http://www.illustrativemathematics.org/illustrations/1026</p>

6th Grade Math Curriculum Map

General Resources

http://firefightermath.org/index.php?option=com_content&view=article&id=104&Itemid=27

<http://emergentmath.com/my-problem-based-curriculum-maps/>

<http://schools.nyc.gov/Academics/CommonCoreLibrary/TasksUnitsStudentWork/default.htm>

<https://www.georgiastandards.org/Common-Core/Pages/Math-6-8.aspx>

<http://map.mathshell.org/materials/index.php>

Secondary Schools Common Core Math Teams

Teams consist of math teachers from the secondary schools

Objectives:

- Align the Common Core Standards to the existing math textbooks.
- Determine what standards are not covered in the textbook.
- Identify what sections of the book that should not be taught.
- Research the internet for resources to fill the holes.
- Determine that the Common Core Math Practices are evident in the lessons.

Significant issues:

- Existing textbooks that cover the standards are procedural, lacking many of the common core math practices.
- 8th grade math's Common Core Standards can not be found primarily in one textbook.
 - Approximately 40% in the 7th grade book
 - Approximately 30% in the Algebra book
 - Approximately 30% in neither book
- Holes are being filled with lessons found on the internet.

Status of the Math Teams

	Initial team review of the existing Textbook	Creation of a Curriculum Map First Draft	Follow up Work	Final Draft of a Curriculum Map
<i>Middle School 6th Grade</i>	X	X		
<i>7th Grade</i>	X	1/28		
<i>7th Grade Accelerated</i>	X	1/28		
<i>8th Grade</i>	X			
<i>8th Grade Algebra</i>				
<i>HS Algebra</i>	X			
<i>Geometry</i>				



Course Sequences for Higher Mathematics: No Acceleration

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State Superintendent
of Public Instruction





Possible Course Progressions from the Standards Document

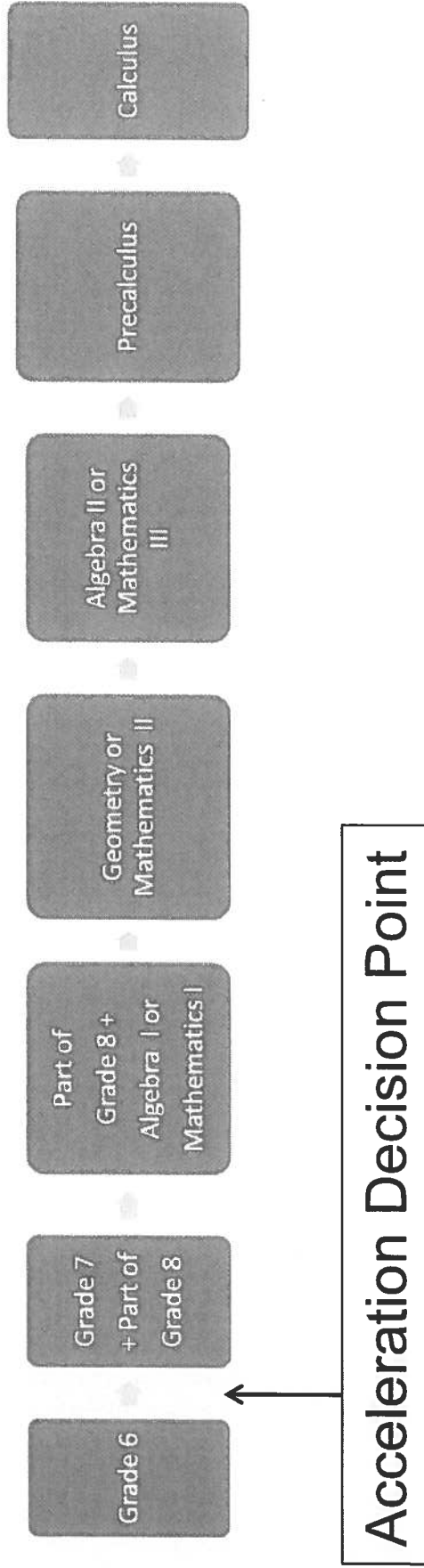
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Discipline	Grade Seven	Grade Eight	Grade Nine	Grade Ten	Grade Eleven	Grade Twelve
Algebra I/Mathematics I						
Geometry/Mathematics II						
Algebra II/Mathematics III						
Advanced Placement						
Probability and Statistics						
Calculus						



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Course Sequences for Higher Mathematics: Middle School Acceleration

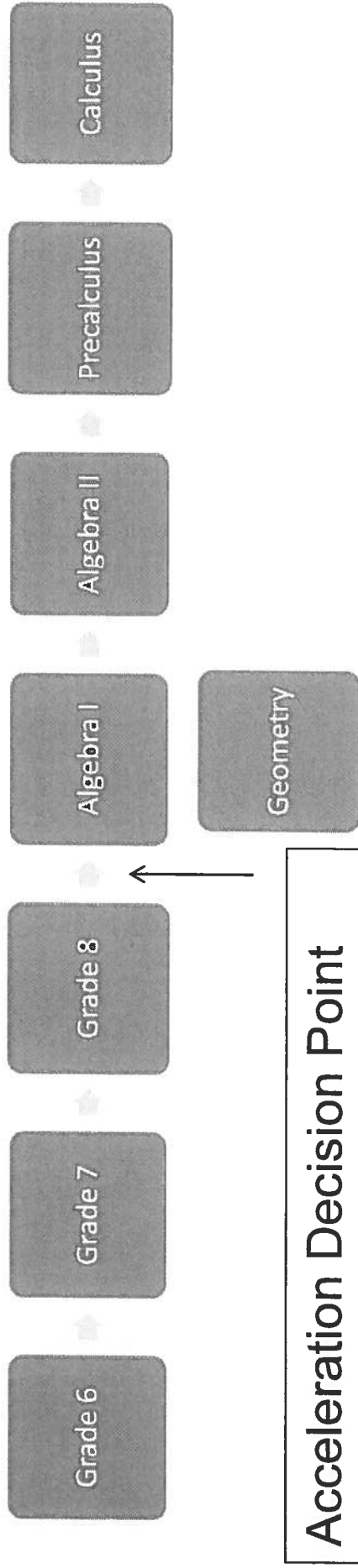




Course Sequences for Higher Mathematics: Doubling Up

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Doubling up in High School



Accelerated Integrated Pathway





Course Sequences for Higher Mathematics: Enhanced & Summer Bridge

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Enhanced Pathway



Acceleration Decision Point

Summer Bridge Pathway



