IMPLEMENTING COMMON CORE MATHEMATICS SUCCESSES & CHALLENGES IN RIALTO UNIFIED SCHOOL DISTRICT



CMC-South Leadership Conference October 24, 2014





10/15/2014





10/15/2014

2013-2014: TRANSITION CONTINUES MAKING UP FOR LOST TIME

- o LCAP
 - Priority Areas
- o Integrating Technology
 - 1st in Math
- o Textbook Process
 - Pilot
 - Adoption
- o Modifying Assessments
 - Performance Tasks
 - Triangulation using CSU/UC Math Diag. Testing Project

- o Professional Development
 - Webcasts/Webinars
 - PLN: DOK, AT in Math
 - K-8 Strategies & Focus Content
 - Statistics & Probability
 - "Support Meetings"
 - SBAC Fieldtesting
- o Integrated Math
 - Making the Case
 - Voting
 - Transitional 8th Grade Course



10/15/2014



State Board of Education-Adopted Instructional Strategies

420 Student Engagement Strategies

Building a robust list of student engagement strategies is essential for all teachers.
When students are engaged in the classroom, they remain focused and on-task. This
also provides for good classroom management and effective teaching and learning. The
table below, provided by the Rialto Unified School District, illustrates several student
engagement strategies for the mathematics classroom:

426

Student Engagement Strategies	Description	Math Example
Appointment Clock	Partnering to make future discussion/work appointments. (good grouping strategy)	Student are given a page with a clock printed on it that they use to set appointment times to meet with other students to discuss math problems.
Carousel-Museum Walk	Each group posts sample work on the wall and the leader for that group stands near the work, as the rest of the group rotates around the room, looking at all the samples.	Each group is given a poster paper & Math problem to work on. Once the groups are finished, paper is posted on the walls around the classroom. The leader stays with the poster to explain the work, while the other students walk around the room looking at the other students' work.
Charades	Students individually, or with a team, act out a scenario.	Students work in teams to act out word problems while others try to solve the problem.
Clues (Barrier Games)	One partner has a picture of information the other student does not have. Sitting back- to-back or using a visual barrier, students communicate to complete the task.	Working in teams of 2, each student has a different problem to communicate to the other student, who is to try and solve the problem from the information provided by the first student. The students sit with a barrier between them during the activity.

The *Mathematics Framework* was adopted by the California State Board of Education on November 6, 2013. *The Mathematics Framework* has not been edited for publication.

Coming to Consensus	Sharing their individual ideas, the group comes to a consensus to share with the whole class.	Each member of the group shares their answer to a given problem, the steps they used etc. When the group comes to a consensus, they share out with the whole class.	
Explorers & Settlers	Assign half the students to be explorers and half settlers. Explorers seek out a settler to discuss a question. Students can change roles and repeat process.	Half of the students are explorers who have a Math term or problem. The other half is settlers who have the definitions or answers. Explores seek out the settler with the correct answers and discuss the information.	
Find My Rule Using cards, students are given cards and must find the person that matches their card. 9 11 12 0 10 with a rule, and the other has an example of that rule, as they find their partner.		A great strategy for inductive/deductive reasoning. Works well for grouping students randomly and developing problem- solving skills. Cards are prepared one with a problem and the other with the "rule." Students circulate throughout the room to match the cards that are connected or related by the "rule." Once all members of the group have been found, group members will articulate the rule and how the group is connected	
Find Your Partner Matching games for large classes Field Your Partner Let Converting to Alsoneth Synthesis for an end of the Converting to Alsoneth Synthesis f	Each student is given a card that matches another student's card in some way.	Examples: Math problem with steps to solution Concept + example	
Four Corners	Assign each corner of the room a category related to a topic. Students write which category they are most interested in, giving reasons, and then form groups in those corners.	Students are divided in 4 groups and sent to a corner which is numbered 2 - 5 Teacher then asked a problem with the answer being a multiple of $2 - 5$. Students in a corner that is a factor of that number will move to another corner. If teacher calls out 6, students in corners labeled 2 and 3 will move the activity ends with a prime number answer and students return to their seats.	

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Getting Ready for the Common Core





ACCOUNTABLE TALK

- All grade levels, all content areas, all teachers
- Will be modeled in the Common Core trainings

CLOSE & CRITICAL READING

- Incorporated in all trainings
- Incorporated in all disciplines



MATHEMATICS CONTENT

2013-2014: Statistics and Probability have been included in all mathematics courses grades 6,7,8 and Common Core Algebra I, Geometry, Algebra as well as Math1, Math 2, and Math 3. It is therefore imperative that teachers get trained in this content which is entirely new content for secondary schools.

Principals please always check PDC generated PSRs' for invited teachers and accuracy.

Staff Development - 2013-2014

All workshops will be offered at the PDC unless the table below gives another location .

"Group 1Elementary schools": Bemis, Curtis, Dunn, Henry, Hughbanks, Kelley, Kordyak, Morgan, Morris, Trapp "Group 2 Elementary schools": Boyd, Casey, Dollahan, Fitz, Garcia, Myers, Preston, Simpson, Werner •

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Special Education teachers will be included in one of the	grade level trainings.
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Date/Time	Grade Span/Grade Level Title of Workshop			
August 13, 2013	Middle School- ELA Math/Dept. Chairs	Lesson Study Training		
8:00 a.m10:00 a.m.				
August 14, 2013	Middle School- Grade 8 Eighth Grade Common Core Transitional			
8:00 a.m3:00 p.m.		Mathematics Training (Round 1)		
August 20, 2013	Middle School- Grade 6- Math/Science teachers only &	Sixth Grade Common Core Training-		
8:00 a.m. – 3:00 p.m.	some self- contained	Math/Science- includes new STEM course		
August 21, 2013	Elementary School - Grade 3	Common Core Training in ELA/Math-Grade 3-		
8:00 a.m. – 3:00 p.m.	(Schools –Designated as Group 1 schools)			
September 3, 2013	Elementary School- Grade 3	Common Core Training in ELA/Math- Grade 3		
August 22, 2013	(Schools –Designated as Group 2 schools)	NOTE: Change in day due to minimum day on		
8:00 a.m. – 3:00 p.m.		August 22		
August 27, 2013	Middle School- Grade 6- Social Studies/ELA teachers	Sixin Grade Common Core Training- Social		
8:00 a.m 3:00 p.m.	only & some self- contained	Science/ELA (includes new STEM course)		
August 28, 2013	Elementary School- Grade 4	Common Core Training in ELA/Main-Grade 4		
8:00 a.m 3:00 p.m.	(Schools – Designated as Group 1 schools)	Common Cons Training in ELAMath Crade 4		
August 29, 2013	(Schools, Designated as Crown 2 schools)	Common Core Training in ELA/Main- Grade 4		
8.00 a.m. – 3.00 p.m.	(Schools – Designated as Group 2 schools)			
September 4, 2013	Elementary School- Grade 5	Common Core Training in ELA/Math-Grade 5		
8:00 a.m. – 3:00 p.m.	(Schools –Designated as Group 1 schools)			
September 5, 2013	Elementary School- Grade 5	Common Core Training in ELA/Math-Grade 5		
8:00 a.m. – 3:00 p.m.	(Schools – Designated as Group 2 schools)			
September 5, 2013	High School- Addressing the Common Core	Open to all CANCELLED		
3:30p.m. – 5:00 p.m.	Mathematical Practice Standards	collaboratin CANCELLED hers on My		
Garden 10, 2012	Middle School Service 1. Grade 7. Special St. & SDC//SED	Learning Plan (1.5 nours of extra duty pay)		
September 10, 2013	Middle School Session 7: - Grade 7: Social St. & SDC//SED Middle School Session 7: - Grade 8: Social St. & SDC//SED	Session 1: 8:00 a.m. – 10:30 p.m.		
(see times on right	NEW (Science is NOT COMING THAT DAY)	Session 2: 12:00 hoon -2:50 p.m.		
September 11 2013	Elementary School- Grade 2 (Round 2)	Common Core Training in EL A/Math- Grade 2		
8.00 am - 3.00 nm	(Schools – Designated as Group 1 schools)	Common Core Training in ELFA Math- Grade 2		
September 12, 2013	Elementary School- Grade 2 (Round 2)	Common Core Training in ELA/Math- Grade 2		
8:00 a.m 3:00 p.m.	(Schools –Designated as Group 2 schools)	Common Core Huming in Dan Privati Crude 2		
September 18, 2013	Middle School- Next Generation Science Standards-	NGSS- Grades 7/8 Science		
8:00 a.m 3:00 p.m.	Grades 7/8			
September 19, 2013	Middle School- Next Generation Science Standards-	NGSS- Grades 7/8 Science		
8:00 a.m 3:00 p.m.	Grades 7/8			
September 24, 2013	Middle School- Grade 7/8 ELA	ELA teachers: 8:00 a.m 10:30 p.m.		
8:00 a.m 2:30 p.m.	SS Leads for lesson Study	Social Studies leads - Lesson Study: 12:00 noon -2:30		
Sentember 25, 2012	Flowertow School Crede K (Bound 2)	p.m.		
September 25, 2015	(Schoole, Designated as Crown 1 schoole)	Common Core Training in ELA/Main-Grade K		
September 26, 2013	Elementary School, Grade K (Dound 2)	Common Core Training in ELA/Math. Grade K		
8:00 am = 2:30 nm	(Schools – Designated as Group 2 schools)	Common Core Training in ELA/Maul- Grade K		
0.00 a.m. – 2.50 p.m.	(Schools –Designated as Group 2 schools)			
October 1, 2013	High Schools- Close and Critical Reading	Open to any high school teachers on My Learning		
3:00 – 5:00 p.m.		Plan (1.5 hours of extra duty pay)		
October 1, 2013	High School ELA (Morning 8:00-10:30 a.m.)	Eis rs in the		
Moved to Oct 15, 2013	High School Math (afternoon: 12 noon 2:30 p.m.)	me DATE CHANGE DUE TO noon)		
Uctober 2, 2013	High School ELA (Morning 8:00-10:30 a.m.)	Rif CAHSEE Testing		
Moved to Oct 16, 2013	Fluencetore School Main (atternoon: 12 noon - 2:30 p.m.)	mo. mag and main trachers in the arter Acon)		
October 3, 2013	Elementary School- Grade 3 (Round 2)	Common Core Training in ELA/Math-Grade 3		
0:00 a.m 3:00 p.m.	(Schools – Designated as Group I schools)	Common Com Training in FI A Math. Cond. 1		
0000 am 2:00	(Schoole, Designated on Crown 1 schoole)	Common Core Training in ELA/Math-Grade 1		
0.00 a.m 3:00 p.m.	Elementary School Grade 1 (Devel 2)			
8:00 am - 2:00 nm	(Schools Designated as Crown 2 schools)	Common Core Training in ELA/Math-Grade I		
0.00 a.m 5.00 p.m.	1 (Schools – Designated as Group 2 schools)			

Date/Time	Grade Span/Grade Level	Title of Workshop	
October 10, 2013	Elementary School- Grade 3 (Round 2)	Common Core Training in ELA/Math- Grade 3	
8:00 a.m. – 3:00 p.m.	(Schools – Designated as Group 2 schools)		
October 15, 2013	High School ELA (Morning 8:00-10:30 a.m.) High School Math (afternoon: 12 noon – 2:30 p.m.) <u>High Schools-Probability and Statistics (1 of 2)</u> Moved to Jan 21	Eisenhower and Carter (check list -all ELA teachers in the morning and Math teachers in the afternoon)	
October 16, 2013	High Schools- Probability and Statistics(2 of 2)	Common Core Training in Math for the following	
8:00 a.m 3:00 p.m.	Moved to Jan 23	schools: Eisenhower and Carter (all math teachers)	
October 17, 2013(Oct 24) 8:00 a.m. – 3:00 p.m. Moved to Jan 28, 2014	High Schools Probability and Statistics (Part 1 of 2)	Common Core Training in Math for: Rialto High, Milor High and Zupanic High(all math teachers)	
October 17, 2013 3:00 – 5:00 p.m.	Special Education Teachers- Grades K-6	Writing Training	
October 22, 2013 8:00 a.m. – 3:00 p.m.	Middle Schools - Probability and Statistics- Grade 7,8 and Algebra I	Common Core Training in Math for all middle schools Grade 7,8 and Algebra I teachers	
October 24, 2013	High School ELA (Morning 8:00- 10:30 a.m.) High School Math (afternoon: 12 noon – 2:30 p.m.) High Schools-Probability and Statistics	Rialto, Milor/Zupanic (all ELA teachers in the morning and Math teachers in the afternoon) Common Core Training in Math for the following	
	(Part 2 of 2)- Moved to Jan 29, 2014	schools: Rialto High, Milor and Zupanic High	
November 5, 2013 3:00 – 5:00 p.m.	High School- Accountable Talk	Open to any hig (1.5 hours of ex CANCELLED y Learning Plan	
November 12, 2013	Elementary School- Grade 4 (Round 2)	Common Core Training in ELA/Math- Grade 4	
8:00 a.m. – 3:00 p.m.	(Schools –Designated as Group 1 schools)		
November 13, 2013 8:00 a.m. – 3:00 p.m.	Elementary School- Grade 4 (Round 2) (Schools – Designated as Group 2 schools)	Common Core Training in ELA/Math- Grade 4	
November 14, 2013 8:00 a.m. – 3:00 p.m.	Middle Schools – Transitional 8 th grade Common Core Math	Common Core Training in Math for all middle schools grade 8 teachers teaching Transitional 8 th grade Common Core Math (Round 2)	
November 19, 2013 8:00 a.m. – 3:00 p.m.	Elementary School- Grade 5 (Round 2) (Schools – Designated as Group 1 schools)	Common Core Training in ELA/Math- Grade 5	
November 20, 2013 8:00 a.m. – 3:00 p.m.	Elementary School- Grade 5 (Round 2) (Schools –Designated as Group 2 schools)	Common Core Training in ELA/Math- Grade 5	
January 9 , 2014 3:00 p.m. – 5:00 p.m.	Special Education teachers Grades K-6	Writing Training – Grade K-6 (Round 1)	
January 16, 2014 8:00 a.m. – 3:00 p.m.	Middle Schools – Transitional 8 th grade Common Core Math	Common Core Training in Math for all middle schools grade 8 teachers teaching Transitional 8 th grade Common Core Math (Round 3)	
January 21, 2014 8:00 a.m. – 3:00 p.m.	y 21, 2014 High Schools- Probability and Statistics (1 of 2) Common Core Training in Matt m 3:00 p.m. Core Training in Matt		
January 23, 2014 8:00 a.m. – 3:00 p.m.	High Schools- Probability and Statistics (2 of 2)	Common Core Training in Math for the following schools: Eisenhower and Carter (all math teachers	
January 28, 2014 8:00 a.m. – 3:00 p.m.	High Schools- Probability and Statistics (1 of 2)	Common Core Training in Math for: Rialto High, Milor High and Zupanic High(all math teachers)	
January 30, 2014 8:00 a.m. – 3:00 p.m.	High Schools- Probability and Statistics (2 of 2)	Common Core Training in Math for: Rialto High, Milor High and Zupanic High (all math teachers)	
January 28, 29 & 30 9:00 a.m11:00a.m.	Parent University	CCSS Overview	
January 29, 2014 8:00a.m10:00a.m.	Think Together	Accountable Talk	
February 3 & 5 8:00 a.m. – 3:00 p.m.	Middle School Lesson Study 6 th Grade Math-Kolb	CCSS Math Lesson Study	

Date/Time	Grade Span/Grade Level	Title of Workshop	
February 4, 2014	K-12 Teachers	Classroom Management: Pressing the Restart	
3:00p.m 5:00 p.m.		Button (Session 2)	
February 11, 2014	Middle School 6 (7&8 makeup)- Statistics	Common Core Training in Math	
8:00 a.m. – 3:00 p.m.	and Probability		
February 12, 2014	High School Soc St. (Morning 8:00-10:45 a.m.)	Rialto HS, Milor/Zupanic all Hist/SS	
February 13, 2014	High School Soc St. (Morning 8:00-10:45 a.m.)	Carter & Eisenhower all Hist/SS teachers	
February 13, 2014	Special Education Teachers Grades K-6	Writing Training- Grades K-6 (Round 3)	
3:00 p.m. – 5:00 p.m.			
February 20, 2014 9:00-11:00	Parent University	Empowerment Through Testing Strategies	
February 20, 2014	Elementary K-5	6+1 Traits of Writing: Word Choice	
3:30p.m5:00p.m.			
February 24 &26, 2014	Middle School Lesson Study 6 th Grade Math -Frisbie	CCSS Math Lesson Study	
February 24, 2014	Elementary Writing Training K-5: Garcia,	Step Up to Writing	
2:15p.m4:15p.m.	Preston & Casey		
February 25 & 26, 2014	PLC Writing Coaching: Garcia, Preston &	Step Up to Writing & 6 Traits	
8:00a.m2:00p.m.	Casey		
February 27, 2014	Think Together	Math Talk	
9:00a.m10:30 a.m.			
March 3, 2014	High School Foreign Language, VAPA, and	Accountable Talk	
3:00p.m4:30p.m.	CTE Teachers		
March 3 & 5, 2014	Middle School Lesson Study 6 th Grade Math	CCSS Math Lesson Study	
8:00 a.m. – 3:00 p.m.	-Rialto Middle School		
March 3, 2014	Elementary Writing Training K-5:Morgan,	Step Up to Writing	
2:30p.m3:30p.m.	Kelley, & Bemis		
March 4, 2014	Parent University	Knowledge is Power!	
9:00a.m11:00a.m.			
March 4 & 5, 2014	PLC Writing Coaching: Morgan, Kelley, &	Step Up to Writing & 6 Traits	
8:00a.m2:00p.m.	Bemis		
March 6, 2014	Parent University	Math: Yes you Can!	
9:00a.m11:00a.m.			
March 6, 2014	Special Education teachers Grades K-6	Writing Training- Grades K-6 (Round 4)	
3:30-5:00		Stor He To Weiting of Thisking Mana	
April 9, 2014	Inink logether	Step Up 10 writing w/Ininking Maps	
9:00a.m10:30a.m.	K 12 Taasharr	Classroom Management: Progring the Destart	
April 29, 2014	K-12 Teachers	Button (Session 3)	
5:00p.m5:00p.m.		Button (Session 5)	

Specific for Elementary Schools

Date	Topic	Location
September 19, 2013	6+1 Traits of Writing	K-5 teachers sign-up on My Learning Plan to get 1.5
3:30 p.m 5:00 p.m.	Voice	hours of extra duty.
November 14, 2013	6+1 Traits of Writing	K-5 teachers sign-up on My Learning Plan to get 1.5
3:30 p.m 5:00 p.m	Sentence Fluency	hours of extra duty.
February 20, 2014	6+1 Traits of Writing	K-5 teachers sign-up on My Learning Plan to get 1.5
3:30 p.m 5:00 p.m	Word Choice	hours of extra duty.

Specific for Minute Schools					
Date	Topic	Location			
October 7, 2013	Argumentative Writing for ELA teachers only	Jehue (Kolb): ELA/SS: MPR			
1:45 p.m 3:00 p.m.	grades 6, 7, and 8	Math/Science, Special Education			
October 28, 2013	Close and Critical Reading (SS)	RMS (Kolb): ELA/SS: MPR			
1:45p.m 3:00 p.m.	Journaling in Math and Science	Math/Sc: Assigned rooms			
November 18, 2013	TBD	Kolb (Jehue): ELA/SS: Multi-purpose room			
1:45p.m 3:00 p.m.		Math/Sc: Assigned rooms			

Specific for Middle Schools

Middle School Common Core Lesson Studies (2013-2014) **ELA and Mathematics**

Cite Dates	Prop Day 2hrs After School	Eull Day Lason St	ude (auba provided)
Site Dates	Prep Day 2nrs. After School	Full Day Lesson Study (subs provided)	
Jehue	September 23	September 25	
Kucera	October 14	October 16	
Kolb	October 21	October 23	
Frisbie	November 4	November 6	
RMS	December 2	December 4	
	Possible Lesson Sta	udy Dates Math 6th Gi	rade:
Site Dates	Prep Day 2hrs. After School	Full Day Lesson St	udy (subs provided)
Jehue	January 13	January 15	
Kucera	January 27	January 29	
Kolb	February 3	February5	
Frisbie	February 24	February 26	
RMS	March 3	March 5	
and the second sec	Possible Lesson Study	Dates ELA 7th & 8th	Grade:
Site Dates	Prep Day 2.5 hours per grade level	7 th Grade	8 th Grade
	Subs Rotate	Full Day Lesson	Full Day Lesson
		Study	Study
Jehue	August 20	August 21	August 22
Kolb	September 17	September 18 September 19	
Kucera	October 8	October 9 October 10	
Frisbie	October 29	October 30 October 31	
RMS	November 12	November 13 November 14	
1 2 C C C C C C C C C C C C C C C C C C	Possible Lesson Study	Dates Math 7th & 8th	Grade:
Site Dates	Prep Day 2.5 hours per grade level	7 th Grade	8 th Grade
	Subs Rotate	Full Day Lesson	Full Day Lesson
		Study	Study
Kolb	August 27	August 28	August 29
Kucera	September 10	September 11	September 12
Jehue	September 24	September 25	September 26
Frisbie	October 29	October 30	October 31
RMS	December 3	December 4	December 5

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Middle School- Transitional Math Support Second Monday of Each Month (except months that trainings have been scheduled) The support will address : (a) accountable talk and the questions to pose for the particular lessons for that month and (b) activities/ lessons that are on the pacing chart for that month (c) provide any clarifications needed

Month	Date			
September	September 9, 2013: 1:15 – 2:45 p.m.			
October	October 14, 2013: 1:15 – 2:45 p.m.	October 14, 2013: 1:15 – 2:45 p.m.		
November	No training on 2 nd Monday- Training schedule for Nov 14	No training on 2 nd Monday- Training schedule for Nov 14		
December	December 9,2013: 1:15 – 2:45 p.m.			
January	No training on 2 nd Monday- Training schedule for Jan 16			
February	February 10, 2014: 1:15 – 2:45 p.m.			
March	March10, 2014: 1:15 – 2:45 p.m.			
April	April 14, 2014: 1:15 – 2:45 p.m.			
May	May 12, 2014: 1:15 – 2:45 p.m.			















	Traditional Pathway		Integrated Pathway			
Conceptual Category	CC Algebra I	CC Geometry	CC Algebra II	CC Math I	CC Math 2	CC Math 3
Number & Quantity (N)	N-RN1, NRN-2, N-RN3 N-Q1, N-Q2, N-Q3		N-CN1, N-CN 2, N-CN 7, N-CN8+, N-CN 9+	N-Q1*, N-Q2*, N-Q3*	N-RN1, N-RN2, N-RN3, N-CN1, N-CN2, N-CN7, N-CN8+, N-CN9+	N-CN8+, N -CN9+
Algebra (A)	A-SSE1a,* A-SSE 1b*, A-SSE2*, A-SSE3a*, A-SSE3b*, A-SSE3c* A-APR1 A-CED1*, A-CED2*, ACED3*, A-CED4* A-REI1, A-REI 3, <u>A-REI 3.1</u> , A-REI 4a, A-REI4b, A-REI 5, A-REI 6, A-REI 7, A-REI 10, A-REI 11*, A-REI 12		A-SSE1a+, A-SSE1b* A-SSE2, A-SSE4 A-APR 1, A-APR 2, A-APR 3, A-APR4, A -APR 5, A-APR 6, A-APR7+, A-CED1*, A-CED2*, A-CED3*, A-CED4* A-REI2, <u>A-REI 3.1</u> , A-REI11	A-SSE 1a*, A-SSe1b*, A-SSE3*, A-SSE4*, A-REI1, A-REI3, A- REI3.1, A-REI5, A-REI 6, A-REI10, A-REI11*, A-REI 12	A-SSE-1a*, A-SSE1b*, A-SSE2, A-SSE3a, A-SSE3b, A-SSE3c A-APR 1, A-CED 1* A-CED2*, A-CED 1 A-REI4a, A-REI4b, A-REI4	A-SSE1a, A-SSE1b, A-SSE2, A-SSE4 A-APR1, A-APR2, A-APR3, A-APR4, A-APR 5+*, A-APR6, A-APR7 A-CED1*, A-CED2*, A-CED3, A-CED4 A-REI2, A-REI11
Functions (F)	F-IF 1, F-IF2, F-IF3, F-IF 4 F-IF5*, F-IF 6*, F-IF7a*, F-IF7b*, F-IF7e*, F-IF8a, F-IF 8b, F-IF9 F-BF 1a*, F-BF 1b*, F-BF2*, F-BF3, F-BF 4 F-LE1a*, F-LE1b*, F-LE1c* F-LE2*, F-LE3*, F-LE5*		F-IF4, F-IF5, F-IF6 F-IF7b*, F-IF7c*, F-IF7e F-IF8, F-IF9 F-BF1b*, F-BF3, F-BF4a F-LE4, <u>F-LE4.1, F-LE4.2, F-LE4.3</u> F-TF1, F-TF2, <u>F-TF2.1,</u> F-TF5*, F-TF8	F-IF1, F-IF2, F-IF3, F- IF4*, F-IF5*, F-IF6*, F- IF7a*, F-IF7e*, F-IF9 F-BF1a*, F-BF1b*, F- BF2*, F-BF3 F-LE1a*, F-LE1b*, F- LE1c*, F-LE2*, F-LE3* F-LE5*	F-IF4*, F-IF5*, F-IF6* F-IF7a*, F-IF7b*, F-IF8a*, F-IF8b, F-IF9 F-BF1a*, F-BF1b*, F-BF3, F-BF4a F-LE3*, <u>F-LE6*</u> F-TF8	F-IF4*, F-IF5*, F-IF6*, F-IF7b*, F-IF7c,*, F-IF7e*, F-IF8, F-IF9 F-BF1b*, F-BF2, F-BF 4, F-LE4*, <u>F-LE 4.1</u> , <u>F-LE 4.2, F-LE 4.3</u> F-TF1, F-TF2, <u>F-TF2.1</u> , F-TF5*
Geometry (G)		G-C01, G-C02, G-C03, G-C04, G-C05, G-C06,G-C07, G-C08, G-C09, G-C09, G-C010, G-C011, G-C012, G-C013 G-SRT1, G-SRT2, G-SRT3,G-SRT4, G-SRT5, G-SRT6, G-SRT7,G-SRT8*, G-SRT81, G-SRT9+, G-SRT10+, G-SRT11+ G-C1, G-C2, G-C3, G-C4+, G-C5 G-GPE 1, G-GPE2, G-GPE4, G-GPE5, G-GPE6, G-GPE7* G-GMD1, G-GMD3*, G-GMD4, G-GMD5, G-GMD6 G-MG1*, G-MG2,* G-MG3*	<u>G-GPE3.1</u>	G-C01, G-C02, G-C03, G- C04, G-C05, G-C06, G- C07, G-C08, GC012, G- C013 G-GPE4, G-GPE5, G-GPE7*	G-CO9, G-CO10, G-CO11, G-SRT1a, G-SRT1b, G-SRT2, G-SRT3, G-SRT4, G-SRT5, GSRT-6, G-SRT7, G-SRT8, G-SRT8, 1 G-C1, G-C2, G-C3, G-C 4+, G-C 5 G-GPE*, G-GPE2, G-GPR4, G-GMD1, G-GMD3*, <u>G-GMD5* (rev)</u> <u>G-GMD 6(rev)</u>	G-SRT9+, G-SRT10+, G-SRT11+ G-GMD4 G-MG1, G-MG2*, G-MG3* <u>G-GPE3.1</u>
Statistics & Probability (S)	S-ID1*, S-ID2*, S-ID3*, S-ID6a*, S-ID6b*, S-ID6c*, S-ID7,S-ID8,S-ID9*	S-CP1*, S-CP2*, S-CP3*, S-CP4*, S- SP5*, S-SP6*, S-SP7*, S-SP8*, S-SP9* S-MD6*, S-MD7*	S-ID4*, S-IC1*, S-IC2* S-IC3*, SIC4*, S-IC5*, S-IC6*, S-MD6+*, S-MD 7+*	S-ID1*, S-ID2, S-ID 3, S-ID 5, S-ID6a, S-ID 6b, S-ID 6c, S-ID 7, S-ID 8, S- ID 8, S-ID 9	S-CP1*, S-CP2*, S-CP3*, S-CP4*, S-CP5*, S-CP6*, S-CP7*, S-CP8, S-CP9 S-MD-6*, S-MD7*	S-ID4*, S-IC1*, S-IC2*, S-IC3* S-IC4*, S-IC5*, S-IC6* S-IC6*, S-IC7*

Elementary Mathematics Pilot

Chapters to be Piloted

(Please keep notes in your Mathematics Tool Kit documenting your evidence)

Grade Level	Concept To be Field Tested	My Math (McMillan- McGraw Hill)-(MMH)	Go Math! (Houghton Mifflin Harcourt)
Kindergarten	Cardinality	Ch4: Compose and Decompose Numbers to 10	Ch4: Represent and Compose Numbers to 10
First Grade	Addition	Ch3: Addition Strategies to 20	Ch3: Addition Strategies
Second Grade	Subtraction	Ch4: Subtract Two Digits	Ch5: Two digit Subtraction
Third Grade	Multiplication	Ch4: Understanding Multiplication	Ch4: Multiplication Facts and Strategies
Fourth Grade	Division	Ch3: Understanding Multiplication and Division	Ch4: Dividing by one digit numbers
Fifth Grade	Addition & Subtraction of Fractions	Ch9: Adding and Subtracting Fractions	Ch6: Adding and Subtracting Fractions with Unlike Denominators

Pilot teachers please bring back evidence of using the online assessment component for each program and how student and parent friendly they were. The programs are Aleks (McMillan McGraw) and Knewton. (HMH).

2013 Parent Summit STEM Workshop Sessions

Room	Title	Presenter
1-101 Session 2: 10:20 Session 3:11:20	STEM: Science Hands-On Experiences in Science	Juanita Chan, Dianne Austin Instructional Strategists RUSD Professional Development
I-103 Session 2: 10:20 Session 3: 11:20	STEM: Science From Life Science to AP Biology– What does your student need to do to take an AP Biology class at high school?	Robin Pearce, Teacher, AP Biology, Carter High School
C-112 Session 2: 10:20 Session 3: 11:20	STEM:Technology & The Common Core Common Core– Laying out our technology plan for schools	Beth Ann Scantlebury, Chief Technology Officer Raul Maciel, Network Services Manager Rialto Unified School District
C-113 Session 2: 10:20 Session 3: 11:20	STEM: Technology for Students Technology as a communication tool– What is School Loop and how does it help you as a parent.	John Roach, Director Special Programs Rialto Unified School District
I-102 Session 2: 10:20 Session 3: 11:20	STEM: Engineering Come learn more about the MESA program at Rialto High School	Mikal Thompson, Physics Teacher Julien Ansermet, Mathematics Teacher Rialto High School – MESA Program
1-104 Session 2: 10:20 Session 3: 11:20	STEM: Engineering Come learn more about the MESA program at Kolb Middle School	Catherine Sanchez, Science Teacher Lizbeth Mariscal. Science Teacher Kolb Middle School – MESA Program
C-115 Session 2: 10:20 Session 3: 11:20	STEM: Mathematics Common Core in Mathematics, what is it , and how does it benefit our students?	Jeff Burke, MathematicsCoordinator San Bernardino County Superintendent of Schools
C-116 Session 2: 10:20 Session 3: 11:20	STEM: Mathematics Common Core in Mathematics, what is it , and how does it benefit our students?	Teressa Brown, Coordinator Elizabeth Curtiss, Coordinator RUSD Professional Development

August 4, 2014

Dear Parent:

As Rialto USD transitions from the California Mathematics Standards to the Common Core (CC) Mathematics Standards for the 2014-2015 school year, we are pleased to inform you that your student was selected to be in the Accelerated Math Pathway based on his/her previous grade in mathematics, student placement test, benchmark scores and/or teacher recommendation. This means that he/she will be completing four years of mathematics in three years. Below is a schematic of the general pathway, honors pathway and the accelerated pathway from 6th grade to high school:

Grade Level	Grade 6	Grade 7	Grade 8	Grade9	Grade 10	Grade 11	Grade 12
General Pathway	Course 1	Course 2	Course 3	Math 1	Math 2	Math 3	Statistics
Honors Pathway	Course1(H)	Course 2(H)	Course 3(H)	Math 1H	Math 2H	Math 3H	Pre-Cal(H) AP Stats
Accelerated Pathway	Course 2(Acc) (needed Course1 Stds.)	Course 3(Acc) (needed Course 2 Stds.)	Math 1H (needed Course 3 Stds.)	Math 2H	Math 3H	Pre- Cal(H)	AP Calculus AP Stats

The **Accelerated** Pathway that Rialto USD is utilizing, aims to advance talented math students (not necessarily GATE) who met the criteria listed above, are dedicated and hardworking, have a love of mathematics and are willing to challenge themselves and excel. The reason why "Needed Course Standards" was added to each of the accelerated courses is that even though the students are accelerated by one grade level, the state still requires them to be tested at their grade level.

The Honors Pathway is for GATE students who are highly performing but not necessarily accelerated in math. They will still have the honors pathway that will take them to advanced math in the high school.

The **General Pathway** also takes students to three years of math (Math 3) at the high school with the option to take a fourth year in high school.

What is important to understand is the following:

- In order to compare and increase math achievement in the US, it was important that all states adopt similar standards (46 out of 50 states have done that), so that important research can be conducted as to what works in the teaching and learning of mathematics which in turn will affect the way students are taught and assessed.
- California Algebra I, Geometry and Algebra II no longer exist. Instead the Common Core Algebra I, Geometry and Algebra II or the Common Core Integrated I, Integrated II and Integrated III now exist. The Common Core courses all include Statistics in them and the difference between the two common core sequence of classes is that Algebra and Geometry and Statistics are intertwined together in the integrated series.
- At the high school level, ALL students will be tested in mathematics <u>ONLY</u> at the 11th grade on all the standards that they have studied in the 9th, 10th and 11th grades. This test will also play a big role in determining which students have met "Early Assessment Progress (EAP) Status" at a UC/CSU institution, and do not have to take a remedial math course at the college level.
- Rialto USD, adopted the integrated math standards at the high school for two reasons (a) the integrated standards spiral each year building on earlier material (b) given that there is a single assessment in the 11th grade that is high stakes and is integrated, and that ALL 11th grade students have to take, students will naturally do better after taking an integrated course sequence.

Given these facts, it is important to realize that as your student has been accelerated, he/she will be required to do additional work in mathematics and have a more compacted course than other students at his/her grade level. It is therefore imperative that you monitor your student's progress in that class. This year, parents will be given access to the Parent Portal in Synergy to view their students' progress. More information on the Parent Portal will be given to you at back-to-school night.

In the case, where your student cannot keep up with the work due to extenuating factors, they can still go into the Honors track. The important factor is that your student is successful on the 11th grade test and the honors track will have the depth and complexity allowing your student to be successful on the 11th grade math test.

As these courses are extremely rigorous, it is important that you are informed that if your student does not perform and earns less than a B in the course each quarter, they will be transferred back into either the General of the Honors offerings of Math Classes. It is therefore imperative that you ensure that your student keeps up with the work assigned from this class and that you meet /inquire regularly how your student is progressing in this class. This consistent parent-teacher communication helps immensely to monitor your student's progress so that you can intervene when necessary and provide the extra support when needed so that your student can keep up with the course work and be successful.

Finally, a word regarding student testing. During the 2014-2015 school year California will be moving away from assessing students solely using multiple-choice tests but instead will have students take their assessments that will be either online or paper and pencil that will involve Performance Assessments, Enhanced Multiple-Choice, Enhanced Computer testing, Short Answer tasks and Multiple choice tests. Instead of bubbling their answers, students now will have to provide reasons and justification for their work. Some of Rialto USD's assessments will be of the same format, so please make sure that you ask your student for his/her assessments to review with them how they have answered the questions. Examples of questions can be obtained at http://www.smarterbalanced.org/smarter-balanced-assessments/

While this is an initial letter, explaining to you why your student was selected to be in the advanced math class, more information will be coming at Parent College nights, Parent Summit, and the Parent University. Please take advantage of these offerings so that you have a complete picture of what your student needs to do in order to be "College and Career Ready".

We greatly appreciate your cooperation and look forward to working with your student and you to advance them in the field of mathematics. Please fill out the attached form indicating that you have read and agreed to the conditions spelled out in this letter.

Sincerely,

ACCELERATION AGREEMENT IN MATHEMATICS

- I have read the attached letter indicating that my student will be in the Accelerated Mathematics Program for the 2014-2015 school year. I understand that my student has to maintain a B or better in this class.
- In the event, that my student is NOT progressing in this class, there will be a parentteacher meeting set up on a pre-agreed date to discuss why there is a lack of progress and develop a mutual action plan of intervention
- If at the end of the quarter, the student has NOT earned a B or better in mathematics, they will be put in the general or honors class for that grade level- An Accelerated Grade 6 student will return to Math 6 or Math 6 (Honors). Similarly, an Accelerated 7th grade students will return to Math 7 or Math 7 (Honors) and an Accelerated 8th grade student will return from Math 1 to Math 8 or Math 8 (Honors).
- I have read the attached letter and understand the criteria for the accelerated mathematics program being offered. Please check boxes below:
 - o I understand the purpose for acceleration
 - o I understand that my student needs to maintain a "B" or better in this class
 - If my student does not earn a B or better, there will be an initial parent conference to develop an action plan
 - If the student does not progress after that they will be put in the regular or honor mathematics class for that grade level

Name of Student:	V	_ Math Class:	
Name of Parent/Guardian:			
Phone Number			
E-mail address:		0-11 - 1	
Ch.			

Parent/ Guardian Signature:__

2014-2015

5th Grade Math Unit of Study

Critical Area 1 (Chapter 1-5): Fluency with Whole Numbers & Decimals

Domains: Number & Operations in Base Ten, Operations & Algebraic Thinking, Number & Operation-Fractions

Suggested Number of Days	Days: 66-76			
Mea	ning			
 Understandings (U) Students will understand how to: extend division to two digit divisors integrate decimal fractions into the place value system develop the understanding of operations with decimals to the hundredths develop fluency with whole number and decimal operations solve decimal multiplication problems solve decimal division problems 	 Essential Question(Q) Students will keep considering 1. How to use place value multiplication and expressions to represent and solve problems? 2. How to divide whole numbers? 3. How to add and subtract decimals? 4. How to solve decimal and multiplication problems? 5. How to solve decimal division problems? 			
Acqu	isition			
 Students will know (Knowledge) Understand the Place Value System (5.NBT.1, NBT.2, NBT.3, NBT.4) Write and interpret numerical expressions (5.OA.1, OA.2) Perform operations with multi digit whole numbers & with decimals to the hundredths (5.NBT.5, NBT.6, NBT.7) Apply and extend previous understandings of multiplication and division to multiply and divide decimals (5.NF.3) 	 Students will be skilled and be able to (Demonstrate) Draw diagrams to solve operational problems Use base ten blocks to model operations Use patterns in the placement of the decimal point to multiply by power of 10 Use models to find the product of a decimal and a whole number and the product of two decimals to hundredths Use models to divide whole numbers with and without remainders Add and subtract decimals using a quick picture and base ten blocks Student partner to describe to another pair the answer to the essential questions Draft a rule to answer the essential question Use math journals to demonstrate understanding of learned concepts 			

Common Core Math 7

Rialto Unified School District (2014-2015)

Unit 1: Ratios and Proportional Relationships Chapter 1: Ratios and proportional Reasoning Time: August 4 th – August 26 th					
 How can you show that two objects are proportional? Why are unit rates helpful to being a smart consumer? Explain how to simplify complex fractions. Why does the ratio 3 ft / 1 yd have a value of one? How do you determine if two ratios are proportional? What is the difference between a ratio, unit rate, and a proportion? Is there another way to determine if the relationship is proportional or not proportional? Does the order of the ratios matter? How is the information found in a table related to the information found in a graph? How does slope help verify that a function is linear? What is the difference between direct variation? 	 Inquiry Lab Lesson 1-1: Rates [7.RP.2, 2b] Lesson 1-2: Complex Fractions and Unit Rates [7.RP.1; 7.NS.3] Lesson 1-3: Convert Unit Rates [7.RP.2, 3] Lesson 1-4: Proportional and Nonproportional Relationships [7.RP.2, 2a, 2b] PSI - The Four-Step Plan Mid-Chapter Check Lesson 1-5: Graph Proportional Relationships [7.RP.2, 2a] Lesson 1-5: Graph Proportional Relationships [7.RP.2, 2a] Lesson 1-6: Solve Proportional Relationships [7.RP.2, 2b, 2c, 3] Lesson 1-7: Constant Rate of Change [7.RP.2, 2b, 2d] Lesson 1-8: Slope [7.RP.2, 2a, 2b] Lesson 1-9: Direct Variation [7.RP.2, 2a, 2b] 				

Notes:

Open Task: Introduce the chapter by going over the Unit Project on page 183-184. Use the Vocabulary Review, Comic Strip, and Are You Ready to open the chapter.

- Introduce the 4 types of slope (positive, negative, zero, and undefined) in 1-8.
- In 1-6: Label units to lessen confusion.

End of Chapter PT (Road Trip) on page 93.

1. A brief history of mathematics can be found here: http://www.storyofmathematics.com/index.html

Math I

(2014-2015)

Math I-Big Ideas

This course needs to be taught around "Big Ideas". Unlike previous courses where chapters and skills were taught in isolation and it was not apparent why students studied certain skills, there is a need to connect concepts and skills and teach them in multiple perspectives. So for example, a "Big Idea" would be on Functions. Functions can be linear or non-linear. All functions involve five perspectives that are taken into consideration: Data Tables, Equations, Graphs, Word Problems, and Pictorial Representations. So students would take this "Big Idea" and apply it to linear, quadratic, exponential, step, logarithmic and trigonometric functions. Therefore there is a purpose and a connection made around these perspectives rather than teaching each function as something totally separate. Keeping this in mind, as you incorporate the Big Ideas that are listed below. Be sure to explicitly model the Standards for Mathematical Practice listed in the next pages. When students explain their reasoning have them justify their responses by using the Standards for Mathematical Practice they become familiar with them.

Key Question: How do you get the other four perspectives of a linear function, given one perspective? Chapters : Ch1, Ch2, Ch3, Ch4, Ch 5 Big Idea #2: Systems Key Question: How are systems of equations or inequalities used to determine multiple unknowns? Chapters: 6 Big Idea #3: Non-Linear Functions Key Questions: How do you distinguish a linear from a non-linear function? What is the difference between a geometric progression and an arithmetic progression? Chapters: 7 & 8 Big Idea #4: Looking at data and developing models
Chapters : Ch1, Ch2, Ch3, Ch4, Ch 5 Big Idea #2: Systems Key Question: How are systems of equations or inequalities used to determine multiple unknowns? Chapters: 6 Big Idea #3: Non-Linear Functions Key Questions: How do you distinguish a linear from a non-linear function? What is the difference between a geometric progression and an arithmetic progression? Chapters: 7 & 8 Big Idea #4: Looking at data and developing models
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Big Idea # 4: Looking at data and developing models
Big Idea # 4: Looking at data and developing models
Key Questions: How do you applying a linear model to data that exhibits a linear trend?
now do you use regression techniques to describe approximately linear relationships among quantities
How do you use graphical representations and knowledge of the context to make judgments about the appropriateness of linear models
How do you look at residuals to analyze the goodness of fit for linear models
Chapter: 9
Big Idea # 5: Becoming an Algebraic "Geometrist"
Key Questions: How to apply the Pythagorean Theorem to the coordinate plane How do you use coordinate geometry to prove real geometric proofs on lines (both parallel and perpendicular), special triangles and quadrilaterals
Chapters: 10,11,12 and 13
Rig Idea #6. Establishing criteria for congruence based on rigid motions
Key Questions: What is rigid motion?
How is rigid motion used to establish triangle congruence
Chapter: 14

Elementary Math Critical Area PT

Timeline

Grade	Critical Area	Critical Area	Critical Area	Critical Area
Level	1	2	3	4
K	Feb. 6 th	April 24 th	May 15 th	
1 st	Nov. 21 st	Feb. 20 th	April 10 th	May 22 nd
2 nd	Oct. 3 rd	Feb. 17 th	May 15 th	June 2 nd
3 rd	Dec. 12 th	April 10 th	June 3 rd	
4 th	Nov. 21 st	March 13 th	May 22 nd	
5 th	Dec. 12 th	April 10 th	June 3 rd	

K Critical areas

1: Counting and cardinality, operations and algebraic thinking, number and operations in base ten

2: Identifying and describing two and three dimensional shapes

3: Measurement, classify and sort data

1st Grade Critical areas

1: Addition and subtraction concepts and strategies and their relationship.

2: Count, model and compare numbers, 2 digit addition and subtraction.

3: Measurement and data representation.

4: 2 & 3 dimensional geometry

2nd Grade critical areas

1: Numbers, Operations and algebraic thinking.

2: Numbers, Operations and algebraic thinking.

3: Measurement and data representation.

4: geometry

3rd Grade critical areas

1: Numbers, Operations and algebraic thinking

Elementary Math Critical Area PT

Timeline

2: Numbers, Operations Fractions, and algebraic thinking

3: Measurement, data representation and geometry

4th Grade critical areas

1: Numbers, Operations and algebraic thinking.

2: Numbers, Operations Fractions, and algebraic thinking.

3: Measurement, data representation, geometry and algebraic thinking.

5th Grade critical areas

1: Numbers, Operations Fractions, and algebraic thinking.

2: Numbers, Operations Fractions, and algebraic thinking.

3: Measurement, data representation, geometry and algebraic thinking.

Performance Task Rubric

	MAKING A QUILT
A level 3 response	 Indicates that the student has made sense of the task, modeled accurately and persevered
	 Shows an ability to accurately recognize 2-dimensional shapes and their attributes, and to draw quadrilaterals
	Demonstrates an understanding of how to partition shapes into parts with equal areas
	Addresses all aspects of the task using diagrams and sound mathematical concepts
A level 2 response	 Indicates that the student has made sense of the task, modeled accurately and persevered
с. У С. – С.	 Shows an ability to accurately recognize 2-dimensional shapes and their attributes, and to draw quadrilaterals
	 Demonstrates an understanding of how to partition shapes into parts with equal areas
	Addresses most elements of the task, using diagrams and mathematically sound procedures
	May include a minor error of omission
A level 1 response	Shows that the student has made sense of at least some elements of the task
	Shows evidence of recognizing some 2-dimensional shapes
	May not indicate a complete understanding of more complex tasks such as how to partition shapes into parts with equal areas
A level 0 response	 Shows little evidence that the student has made sense of the problems of the task
	 Reflects a lack of understanding of 2-dimensional shapes and their attributes
	Shows little evidence of addressing the elements of the task

C Houghton Mifflin Harcourt Publishing Company

AG196 • Grade 3 • Critical Area 4 • Performance Task

And the second of the second Seal of the seal of the and have been and the second Name CRITICAL Geometry 3. Darnell uses block prints to make this design for the quilt. Study AREA the diagram to answer the questions. Pontagon Hexagon Trapezoid Rectan **Making Quilts** The third grade art class is making quilts. Solve the problems below using what you know about geometric shapes. 1. Carly wants to make a block print for the quilt. She wants to draw a closed shape with 5 line segments and two right angles. Draw the shape. Label the right angles. Name the shape. The shape Carly wonth is a Pentagon. a. How many shapes have right angles? Three b. How many shapes have perpendicular lines? Three 3 c. Put a T on the trapezoids. Are the trapezoids also quadrilaterals? Explain. because trapepioids has 4 sides Right angle just like a guadrilateral a. How many angles in the shape are greater than a right angle? 100 2. b. How many angles in the shape are less than a right angle? One d. Put an H on the hexagons. Are the hexagons also quadrilaterals? Explain. because a hexagon has le sides c. How many sets of perpendicular lines did you draw? Two NO d. How many sets of parallel lines did you draw? _____ AND Andes e. Did you draw any intersecting lines? Explain. Yes there are 5 intersecting lines and e. Classify the shapes. Complete the chart to show how many acute and 2 obtase and there are of each shape. they form and 2 right anales Ouadrilaterals Rhombuses Pentagons 2. Carly wants to change the shape to make a hexagon. Explain how she can do this. 4. Ricky makes a design for the quilt. The shape is a Larly can open up omtagon quadrilateral that is not a square. It has 4 sides that and ada are of equal length. Draw the quadrilateral on the grid. another Spament Name the shape. She u Rhombus and WI ine segments nave

25

Sample Level 3 Response

ALGEBRA READINESS TEST

This is a diagnostic test of topics needed for success in a first course in algebra.

CALCULATORS MAY NOT BE USED WHEN TAKING THIS TEST.

A suggested time for this test is approximately 45 minutes.

INSTRUCTIONS

- 1. Wait until you are told to start before beginning the test.
- 2. The test booklet, the answer sheet, and all scratch paper must be turned in when the test is finished. DO NOT WRITE IN THIS BOOKLET.
- 3. Work each problem and select the best response from the given choices. On the answer sheet, bubble the choice that corresponds to your answer.
- 4. For you and your teacher to make the best use of the test results, you should not guess. If you cannot answer a question, leave it blank.
- 5. If you find certain problems very time consuming, leave them temporarily. Come back to them after you have gone through the entire test if you have time.
- 6. Calculators are not needed and may not be used when taking this test.

YOU MUST USE A # 2 PENCIL. Do not use ink pens or mechanical pencils.

COMPLETELY FILL IN THE BUBBLE. Bubbles may not be read if filled in too lightly or partially; if marked with a dot, check, or X; or if more than one bubble is marked. To change a response, completely erase the bubble previously filled in. See the examples shown to the right.

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Test Type 0714510

H - A

-	
1.	4.7 - 0.304 + 2.06 =
	(A) 6.356 (B) 6.456 (C) 6.464 (D) 6.466
2.	The prime factorization of 18 is
	(A) 2×9 (B) 3×6 (C) $2 \times 2 \times 3$ (D) $2 \times 3 \times 3$
3.	Rosa chooses one ball at random from the ten shown to the right. What is the probability the ball she chooses has both stripes and stars? (A) $\frac{1}{10}$ (B) $\frac{1}{5}$ (C) $\frac{1}{2}$ (D) $\frac{3}{5}$
4.	What integer is closest to $\frac{31}{7}$?
	(A) 1 (B) 3 (C) 4 (D) 5
5.	Pat drove her car 147 miles on a trip. At the end of the trip the car's total mileage was 3,835. What was the mileage of the car at the beginning of Pat's trip?
	(A) 3,982 (B) 3,688 (C) 3,588 (D) 2,688
6.	(3a)(8ab) =
	(A) $11ab$ (B) $11a^2b$ (C) $24ab$ (D) $24a^2b$

GO ON TO THE NEXT PAGE.

Educational Services CCSS Walkthrough 14/15

CORE FOCUS 4: SPEAKING & LISTENING

INDICATORS		EVIDENCE OBSERVED OR GATHERED					
1.	A language objective tied to the lesson is posted	1 No language objective	2	3 4 Language objective(s) is/are clear & evident	<u>What to look for:</u> *Teachers plan with a language objective in mind *Language Objective is posted for each lesson		
2.	Students orally share thoughts and add on to or critique others' thoughts	1 Students are not speaking	2	3 4 Students share thoughts and critique others with ease	<u>What to look for:</u> *Teachers plan for students discussions *Students are encouraged to participate in discussions *Accountable Talk stems are taught (Posters on wall, frames in students' hands) and expected to be used in discussions		
3.	Students are offered language support structures such as Accountable Talk frames, sentence frames, response frames, etc. to aid in discussion.	1 No support structures in place	2	3 4 Students have and are encouraged to use frames for discussion	<u>What to look for:</u> *Teachers plan for student discussions *Frames are taught (Posters on wall, frames in students' hands) and expected to be used orally in class		

CORE FOCUS 5: MATH



Educational Services CCSS Walkthrough 14/15

					of units or objects (what do these quantities represent?) *Students use manipulatives or drawings to explain their thinking to others *Students and teachers use the academic language of the discipline
3					*Students restate the thinking of others *Students give feedback and ask questions of others' solutions
3.	Students are encouraged to find multiple ways of solving problems and use different tools/methods to solve	1 Only one method is modeled or encouraged	2	3 4 Multiple methods are modeled & encouraged	What to look for: *Teachers model more than 1 representation that are conceptually relevant *Students are using manipulatives, drawing and writing *Students are leading discussions and/or using document cameras *Students are encouraged to think past just one solution *Teacher encourages multiple representations and solutions
4.	Students are encouraged to collaboratively problem solve	1 No collaboration evident	2	3 4 Collaboration is encouraged & evident	What to look for: *Teachers focus on word problems and/or real world problems *Students frequently work with partners and/or groups *Structure for student collaboration is evident (ie group members have roles: partner a/b, "sage/scribe", etc.) * Teacher is moving about the room, monitoring conversation and noting misconceptions (via clipboard, ipad, etc.) *Students are creating word problems from "real world" scenarios



School:	
Team Members	
1	
2	
3	
4	

STEM BOWL 2014



Ready, Aim, Marshmallows!



Ready, Aim, Marshmallows

Key Question

Which catapult will launch the marshmallow the furthest?

Materials Needed

- Shoe Box
- Ruler
- Marker
- Plastic Knife
- •Masking Tape (100cm)

- •1- inch rubber bands (2)
- •3 pencils
- Plastic Spoon
- Marshmallows
- Meter Stick













DIRECTIONS

- Cut out one of the back(narrower) ends of the shoe box with your plastic knife, leaving a 1 inch strip across the bottom
- Starting from one of the wide ends of the box, <u>mark</u> a point 1 inch from the top and 2.5 inches from the back end that you just cut out in Step 1
- 3. At the marked point, use your plastic knife to cut a hole and enlarge it to fit the diameter of your pencil
- 4. Repeat Step 3 again on the other wide side and pass Pencil #1 through both holes
- 5. Mark an X on the bottom of the shoe box exactly below the midpoint of the pencil
- 6. Now make a hole at the X mark so that a pencil can go through it and stand up
- Take a 2nd pencil and use your masking tape to tape the back of the plastic spoon to the pencil
- 8. Now take a rubber band and pass it through the hole on the bottom as shown in the diagram
- Now pass pencil # 3 through the rubber band loop on the base of the box as shown in the diagram. Tape the pencil with your tape to the bottom of the box.
- 10. Now cross Pencil #2 with Pencil #1 using the rubber band as shown in the picture
- 11. Now use the elastic at the bottom to loop Pencil # 2 through it. If the elastic is not tight enough you can twist it a few times to make it tighter.
- 12. Now put the catapult contraption at one end of the table, load the catapult with a marshmallow and pull back the spoon. Record the distance the marshmallow travels. If it shoots off the table calculate the straight distance it has travelled from the table

3

DATA

Trial	Distance Traveled (cm)	Time taken to hit the table/ground (sec)
1		
2		
3		
	Average distance travelled	Average time taken

If the speed of an object is determined by using the formula given below- determine the marshmallow's speed. Be sure to write the correct unit for the speed?

Speed = Distance ÷ Time

Reflections

Give a reason why a rubber band is used in this experiment?

What type of energy change is occurring in this experiment?

Does the mass of the marshmallow matter in determining how far it travels?