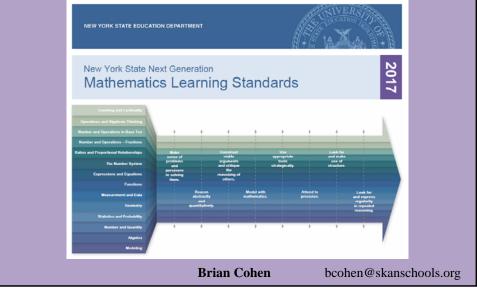
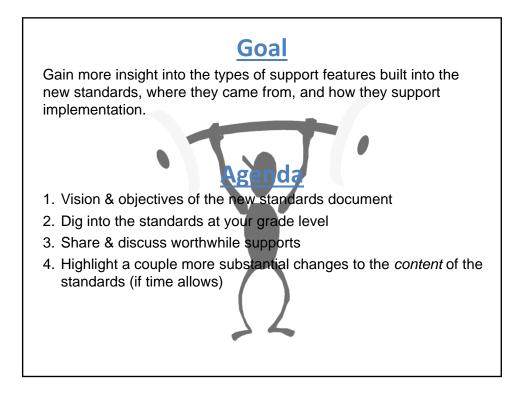
Utilizing the New Teacher-Support Features in the...





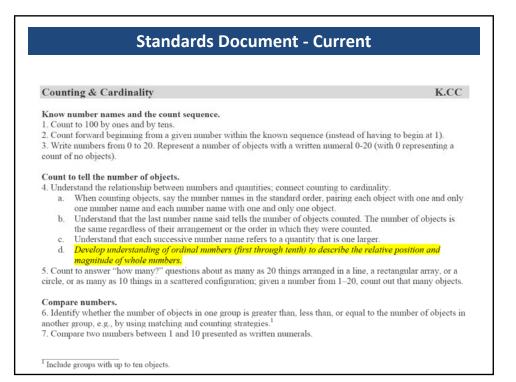
CCSS → NYS NGMS

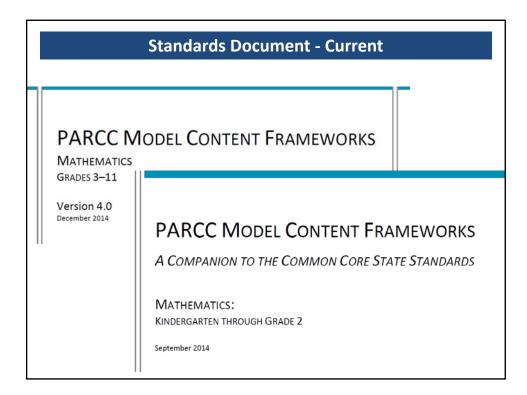
In 2012, at UC Berkeley, Bill McCallum talks about the worthwhile residue left behind when the CCSS-M collapses. He offers, for example, that well developed research-based curricula may endure and benefit students long after the CCSS-M.



As NYS moves forward from the CCSS, we wanted to:

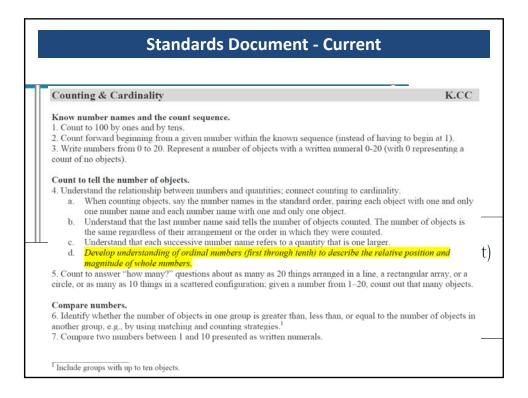
- Keep some the good parts.
- Leave behind what didn't work for us.
- Make improvements and upgrades wherever possible.

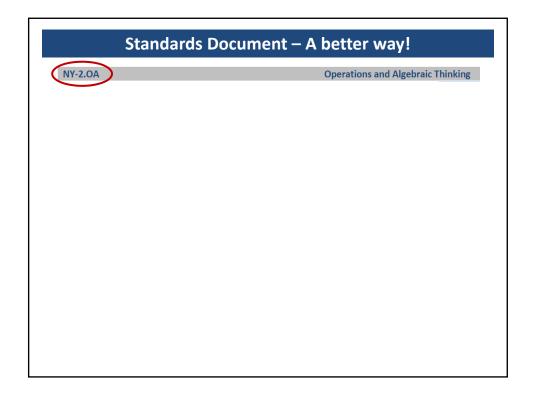


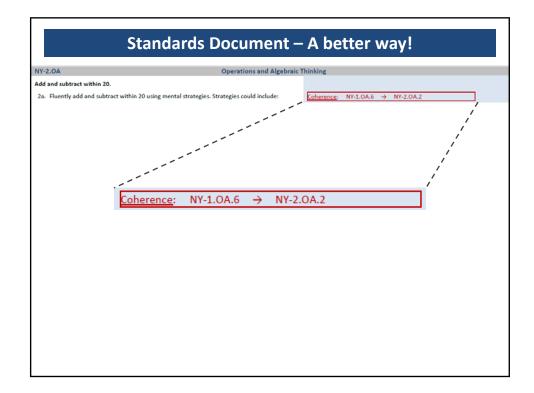


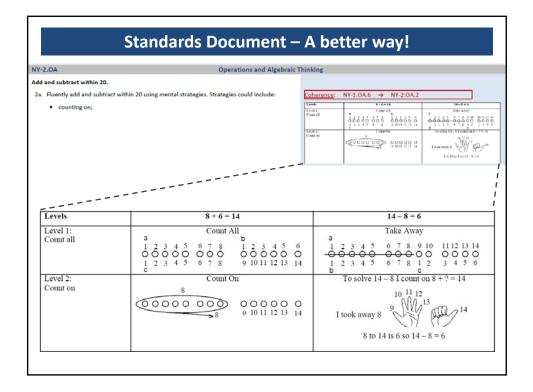
Standards Document - Current			
Exam	ples of Key Advances from Kindergarten to Grade 1		
•	Students gradually come to employ mental strategies (such as counting on and making ten) that make use of embedded concepts of number and the properties of addition and subtraction; by contrast, kindergarten students determine sums and differences primarily by representing problems with objects or drawings.		
Fluer	ncy Expectations or Examples of Culminating Standards		
1.	DA.C.6 Add and subtract within 20, demonstrating fluency for addition and subtraction within 10 Use strategies such as counting on; making ten (e.g., 8 + 6 = 8 + 2 + 4 = 10 + 4 = 14) decomposing a number leading to a ten (e.g., 13 - 4 = 13 - 3 - 1 = 10 - 1 = 9); using the relationship between addition and subtraction (e.g., knowing that 8 + 4 = 12, one know 12 - 8 = 4); and creating equivalent but easier or known sums (e.g., adding 6 + 7 by creating the known equivalent 6 + 6 + 1 = 12 + 1 = 13).		
•	ples of Major Within-Grade Dependencies 1.NBT.B.2 describes the place-value foundations for 1.NBT.B.3 and 1.NBT.C.4. Comparing numbers (1.NBT.B.3) involves thinking about the sizes of tens and ones, and adding two-digi numbers (1.NBT.C.4) involves adding tens with tens and ones with ones, and sometime composing a ten. These ideas and methods rest on an understanding of the place-value unit and the use of visual models of these units in solving and explaining problems using these standards.		

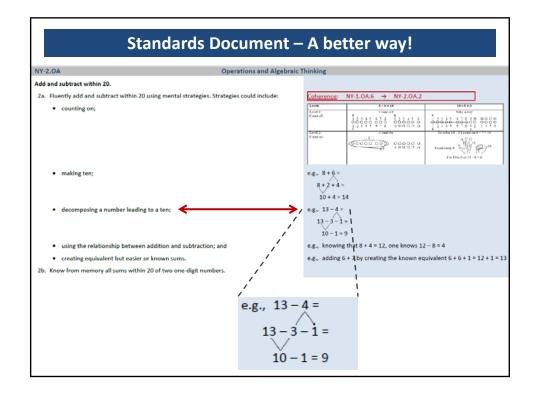
Standards Document - Current			
The import Without specifying the fraction is represented the whole, the shade(tance of specifying the whole	OFE draft) to mean "fast and ac- nixture of just knowing patterns (e.g., "adding ome answers from the sitively and encourag- ers at each grade level, these kinds of thinking ive work relating addi- an frequently be solved y for smaller numbers.	
	Draft, 5/29/2011, comment at commoncoretoc	ols.wordpress.com	

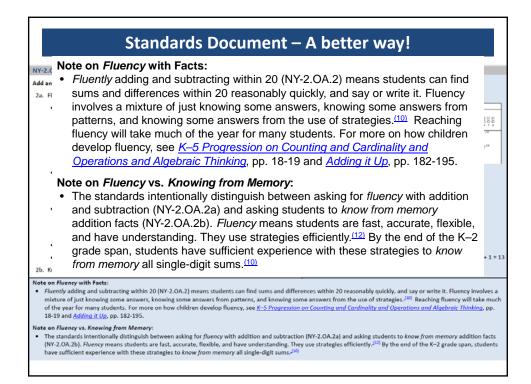




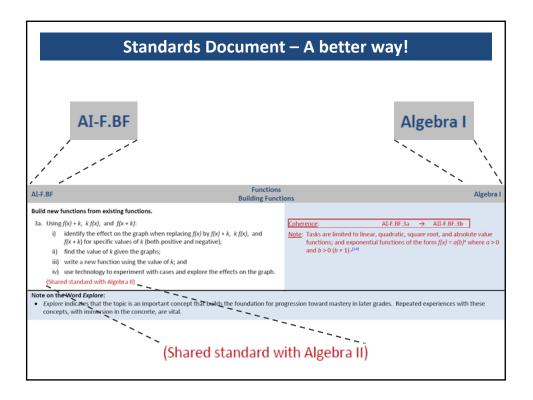


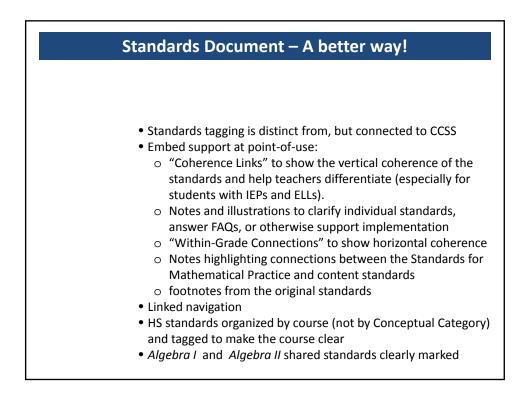






Y-2.OA Operations and Algebra	aic Thinking
dd and subtract within 20.	
a. Fluently add and subtract within 20 using mental strategies. Strategies could include:	Coherence: NY-1.OA.6 → NY-2.OA.2
counting on;	Lock 1 - 5 + 6 H - 1 + 6 Toreit - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6
 making ten; 	e.g., 8+6 = 8+2+4 = 10+4 = 14
 decomposing a number leading to a ten; 	e.g., $13-4 = 13-3-1 = 10-1 = 9$
inked Navigation: Intro. MP. PK. K. 1. 2. 3. 4. 5. 6. 7. 8. HS.	Intro, Algebra I, Geometry, Algebra II, Plus, Citati





Treasure Hunt				
	-1	Your Grade Level	+1	
Fluency with Procedures 2 - A2				
Illustration merged from CCSS appendix PK - 5				
Illustration merged from outside source or new K - 4				
Spacing/alignment PK - A2				
Within-Grade Connection PK - (+)				
Connecting MPs PK - A2				
Note on left PK - 8: footnote from CCSS A1 & A2: shared standard				
Coherence Links PK - (+)				
e.g. PK - (+)				
Note on right (citation) PK - (+)				

Treasure Hunt			
Share & Discuss			
	-1	Your Grade Level	+1
Fluency with Procedures 2 - A2			
Illustration merged from CCSS appendix PK - 5			
Illustration merged from outside source or new K - 4			
Spacing/alignment PK - A2			
Within-Grade Connection PK - (*)			
Connecting MPs PK - A2			
Note on left PK - 8: footnote from CCSS A1 & A2: shared standard			
Coherence Links PK - (+)			
e.g. PK - (*)			
Note on right (citation) PK - (*)			

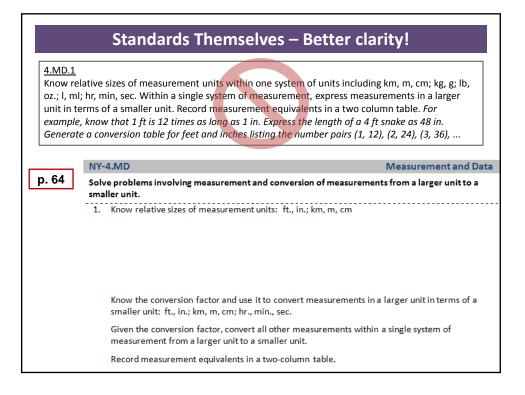
Standards Themselves – Current			
PK.OA.2	Kndg.		
Duplicate and extend (e.g., What comes next?) simple patterns using concrete objects.	None		

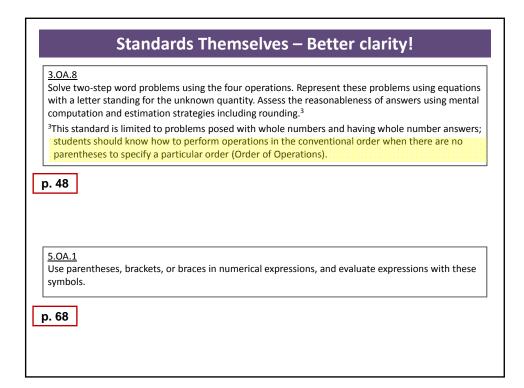
Standards Themselves – Better clarity!

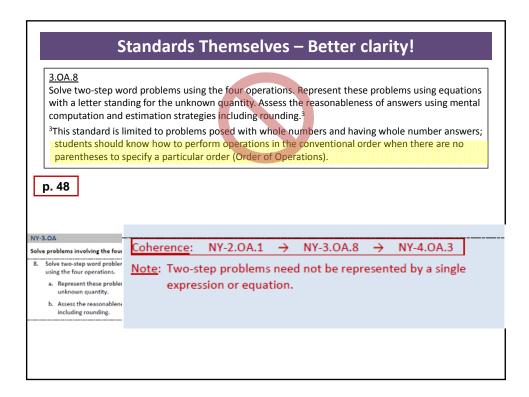
<u>4.MD.1</u>

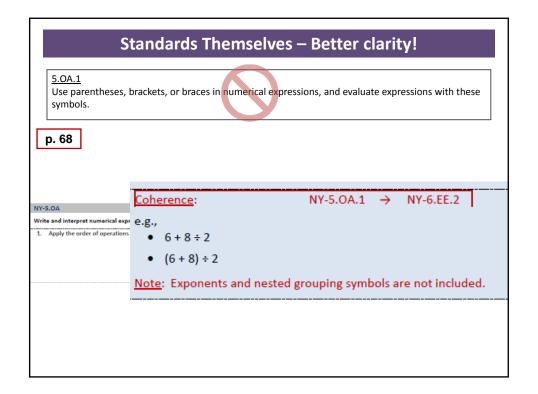
Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two column table. *For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), ...*

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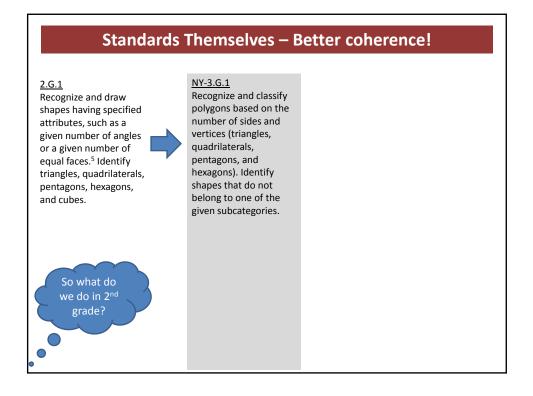


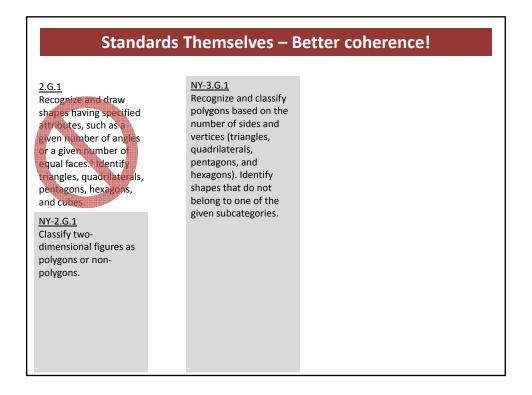


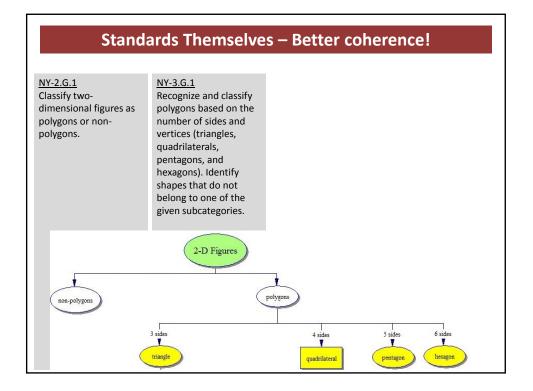


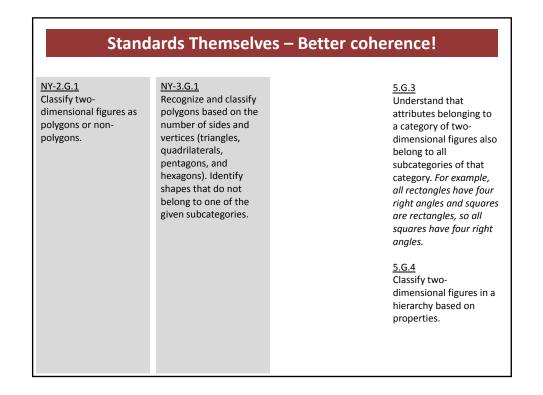


Standards Themselves – Current				
2.G.1 Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. ⁵ Identify triangles, quadrilaterals, pentagons, hexagons, and cubes:	3.G.1 Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories.	 <u>4.G.1</u> Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures. <u>4.G.2</u> <u>Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.</u> 	5.G.3 Understand that attributes belonging to a category of two- dimensional figures also belong to all subcategories of that category. For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles. 5.G.4 Classify two- dimensional figures in a hierarchy based on properties.	

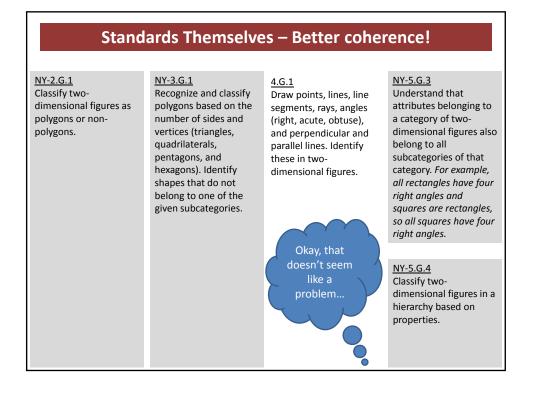




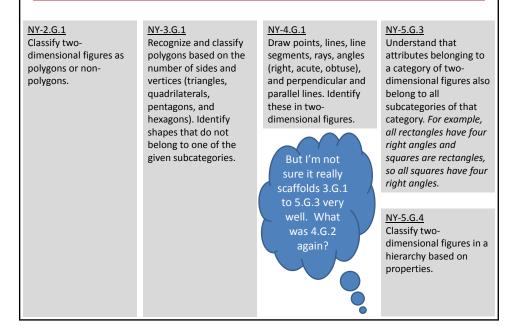


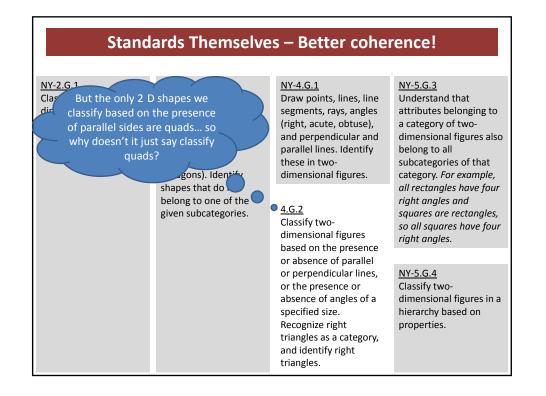


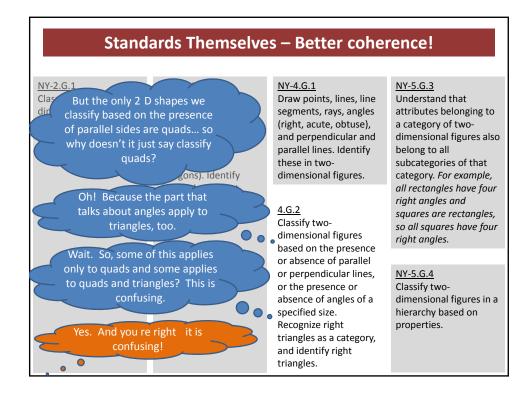
Standards Themselves – Better coherence! NY-3.G.1 NY-2.G.1 NY-5.G.3 Classify two-Recognize and classify Understand that attributes belonging to dimensional figures as polygons based on the polygons or nonnumber of sides and a category of twopolygons. vertices (triangles, dimensional figures also quadrilaterals, belong to all pentagons, and subcategories of that category. For example, hexagons). Identify shapes that do not all rectangles have four belong to one of the right angles and given subcategories. squares are rectangles, so all squares have four right angles. <u>NY-5.G.4</u> Classify twodimensional figures in a hierarchy based on properties.



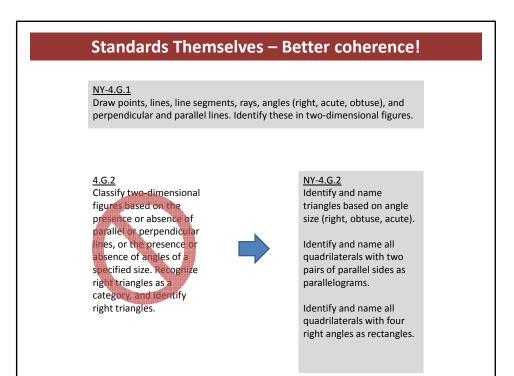
Standards Themselves – Better coherence!







Standards Themselves – Better coherence!				
NY-2.G.1 Classify two- dimensional figures as polygons or non- polygons.	<u>NY-3.G.1</u> Recognize and classify polygons based on the number of sides and vertices (triangles, quadrilaterals, pentagons, and hexagons). Identify shapes that do not belong to one of the given subcategories.	<u>NY-4.G.1</u> Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two- dimensional figures.	<u>NY-5.G.3</u> Understand that attributes belonging to a category of two- dimensional figures also belong to all subcategories of that category. <i>For example</i> ,	
		<u>4.G.2</u> Classify two- dimensional figures based on the presence	all rectangles have four right angles and squares are rectangles, so all squares have four right angles.	
And worst of all, it seems really murky where the boundary between this standard and 5.G.3 is.		or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles.	<u>NY-5.G.4</u> Classify two- dimensional figures in a hierarchy based on properties.	



Standards Themselves – Better coherence!					
<u>NY-2.G.1</u> Classify two- dimensional figures as polygons or non- polygons.	<u>NY-3.G.1</u> Recognize and classify polygons based on the number of sides and vertices (triangles, quadrilaterals, pentagons, and hexagons). Identify shapes that do not belong to one of the given subcategories.	<u>NY-4.G.1</u> Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two- dimensional figures. <u>NY-4.G.2</u> Identify and name triangles based on angle size (right, obtuse, acute).	<u>NY-5.G.3</u> Understand that attributes belonging to a category of two- dimensional figures also belong to all subcategories of that category. For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles.		
		Identify and name all quadrilaterals with two pairs of parallel sides as parallelograms. Identify and name all quadrilaterals with four right angles as rectangles.	<u>NY-5.G.4</u> Classify two- dimensional figures in a hierarchy based on properties.		

