CCS Standards for Mathematics
Space Camp 2017

	Mercury-Gemini	Apollo	Shuttle History	Strange Science	Expedition Living	Ship Shuffle to Mars	Stars and Constellations	Earth from Space	ECLSS	Parachute Design	Planet Quest	Model Rocket Fundamentals	Mars Base Challenge	Water Activities	Astronomy Night
GRADE 4															
Operations and Algebraic Thinking															
Use the four operations with whole numbers to solve problems.													X		
Gain familiarity with factors and multiples.															
Generalize and analyze patterns.															
Number and Operations in Base Ten															
Generalize place value understanding for multi-digit whole numbers.															
Use place value understanding and properties of operations to perform multi-digit arithmetic.												X	X		
Number and Operations - Fractions															
Extend understanding of fraction equivalence and ordering.											X				
Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.															
Apply transformations and use symmetry to analyze mathematical situations															
Understand decimal notation for fractions, and compare decimal fractions.															
Measurement and Data															
Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.											X				
Represent and interpret data.															
Geometric measurement: understand concepts of angle and measure angles.												X			
Geometry															
Draw and identify lines and angles, and classify shapes by properties of their lines and angles.															

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GRADE 5															
Operations and Algebraic Thinking															
Write and interpret numerical expressions.															
Analyze patterns and relationships.															
Number and Operations in Base Ten															
Understand the place value system.															
Perform operations with multi-digit whole numbers and with decimals to hundredths.												X	X		
Number and Operations - Fractions															
Use equivalent fractions as a strategy to add and subtract fractions.															
Apply and extend previous understandings of multiplication and division to multilpy and divide fractions.												X			
Measurement and Data															
Convert like measurement units within a given measurement system.															
Represent and interpret data.															
Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.															
Geometry															
Graph points on the coordinate plane to solve real-world and mathematical problems.															
Classify two-dimensional figures into categories based on their properties.															

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GRADE 6															
Ratios and Proportional Relationships															
Understand ratio concepts and use ratio reasoning to solve problems.															
The Number System															
Apply & extend previous understandings of multiplication & division to multipy & divide fractions by fractions.													X		
Compute fluently with multi-digit numbers and find common factors and multiples.												X			
Apply and extend previous understandings of numbers to the system of rational numbers.															
Expressions and Equations															
Apply and extend previous understandings of arithmetic to algebraic expressions.												X			
Reason about and solve one-variable equations and inequalities.															
Represent and analyze quantitative relationships between dependent and independent variables.															
Geometry															
Solve real-world and mathematical problems involving area, surface area, and volume.															
Statistics and Probability															
Develop understanding of statistical variability.															
Summarize and describe distributions.															