

Cross Grade Level Integration Using **BIG IDEAS** and **QUESTIONS**

Grade levels have been paired per conversation Friday, November 16th.

Grade Level	Big Idea	Areas of Possible Curricular Focus & Integration
Pre-K & Kindergarten	Who Am I?	Science: attributes of objects (myself); plants & animals-like/different (human animal), senses Social Studies: citizenship (rules, honesty, sharing); family, classroom peers; personal interests Math: describe & compare attributes; classify objects; record frequency data
First/Second	Who Am I?	Science: plants & animals (human animal) meet needs in different ways Social Studies: rights & responsibilities of citizenship (the Golden Rule); diversity in families/cultures, personal heritage (ancestors); personal interests Math: represent & interpret data; determine patterns;
Third/Fourth	Who Am I?	Science: Interdependence; living things adapt to environment; symbiosis Social Studies: role of citizenship; personality types, personal learning styles, attitudes, interests, organize demographic information, understand demographic characteristics of California Math: fractions & fractional equivalents; equivalent fractions, order fractions; analyze patterns
Grade Level	Big Idea	Areas of Possible Curricular Focus & Integration
Pre-K & Kindergarten	My Community	Science: Earth's resources (land, water, air); different animals & plants inhabit my community Social Studies: community jobs, names, purposes; map reading Math: Count to tell number of objects; understand concepts of addition and subtraction; compare numbers (> < =)
First/Second	My Community	Science: Earth's resources have different properties Social Studies: relative positions on a map; map features, land use, land forms Math: solve problems involving + & -; extend counting to 120; compare 2-digit numbers; represent and interpret data; understand concepts of multiplication and estimation
Third/Fourth	My Community	Science: Living things adapt to their communities Social Studies: map study, human impact on land; history and viability of local community; understand the physical characteristics of California, governmental structure & rule of law Math: solve problems using 4 operations; calculate perimeter and area of plane figures; represent data (scale drawings)
Grade Level	Big Idea	Areas of Possible Curricular Focus & Integration
Pre-K & Kindergarten	Be a Hero! Take a Stand!	Science: scientific progress through investigation by individuals Social Studies: state & national symbols; reasons for commemorations, Math: compare, analyze, create 2-D & 3-D shapes
First/Second	Be a Hero! Take a Stand!	Science: scientific progress through investigation by individuals Social Studies: symbols of the U.S.; historical sequence, importance in having heroes Math: reason with shapes and their attributes
Third/Fourth	Be a Hero! Take a Stand!	Science: scientific progress through investigation by individuals, focus on electricity and magnetism Social Studies: timeline of local historical events and individuals; understand the contributions of individuals and Californians from pre-Columbian times to present Math: reason with shapes and their attributes, place value and calculations to 1000s, compare and order fractions, add and subtract fractions

Big Ideas are based on *California Common Core Standards (2010)* and *California Content Standards and Frameworks (1998)* in History & Social Studies and Science. These standards are due to be updated in 2013-14.

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Grade Level	Big Idea	Areas of Possible Curricular Focus & Integration
Pre-K & Kindergarten	'Round & 'Round We Go	Science: seasons Social Studies: fact versus legend; temporal order Math: understand temporal time (AM/PM, days of the week, months of the year)
First/Second	'Round & 'Round We Go	Science: seasonal changes; predator/prey relationships; life stages & cycles of plants & animals Social Studies: first Americans; monetary exchange for goods & services; supply & demand; economics of food production Math: tell and write time; problem solve with time and money
Third/Fourth	'Round & 'Round We Go	Science: environmental change & extinction; astronomy (moon phases, tides, seasons); food web; rock cycle Social Studies: cost versus benefits and economic trade-offs; powers of local, state & federal government (checks and balances) Math: understand the properties of and solve problems using multiplication and long division, understand how base-10 place value affects calculation
Grade Level	Big Idea	Possible Curricular Focus & Integration
Pre-K & Kindergarten	Zoom In	Science: properties of materials can be observed, measured, predicted Social Studies: map reading Math: classify objects, describe & compare measureable attributes
First/Second	Zoom In	Science: materials come in different forms (solid, liquid, gas), weather can be observed, measured, and described; motions of objects can be measured Social Studies: varied backgrounds of American immigrants & citizens; role of U.S. government in daily life Math: measure lengths by iterating units of length; measure & estimate units of length; problem solve with time and money
Third/Fourth	Zoom In	Science: stars and planets move in predictable ways, energy & matter have different shapes (heat, light) & can change from one to another (potential, kinetic), biomimicry Social Studies: role of local economy on daily life; Gold Rush period & effects on California statehood then and now Math: solve problems involving units of length, liquid volume, & mass (metric & U.S. standard); create line plots; recognize & measure angles; draw & identify angles; solve problems involving measurements & convert to larger or smaller units
<p>Note: These Big Ideas are <u>only suggestions</u>. Big Idea possibilities are limitless. These Big Ideas/unit titles can be modified to fit the structure of the school or class. The continuation of each Big Idea through several years - from K to 4th grade - is shown in the differentiated integration of California Content Standards through the grades. Reading, as a core instructional strand, is not included.</p>		

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