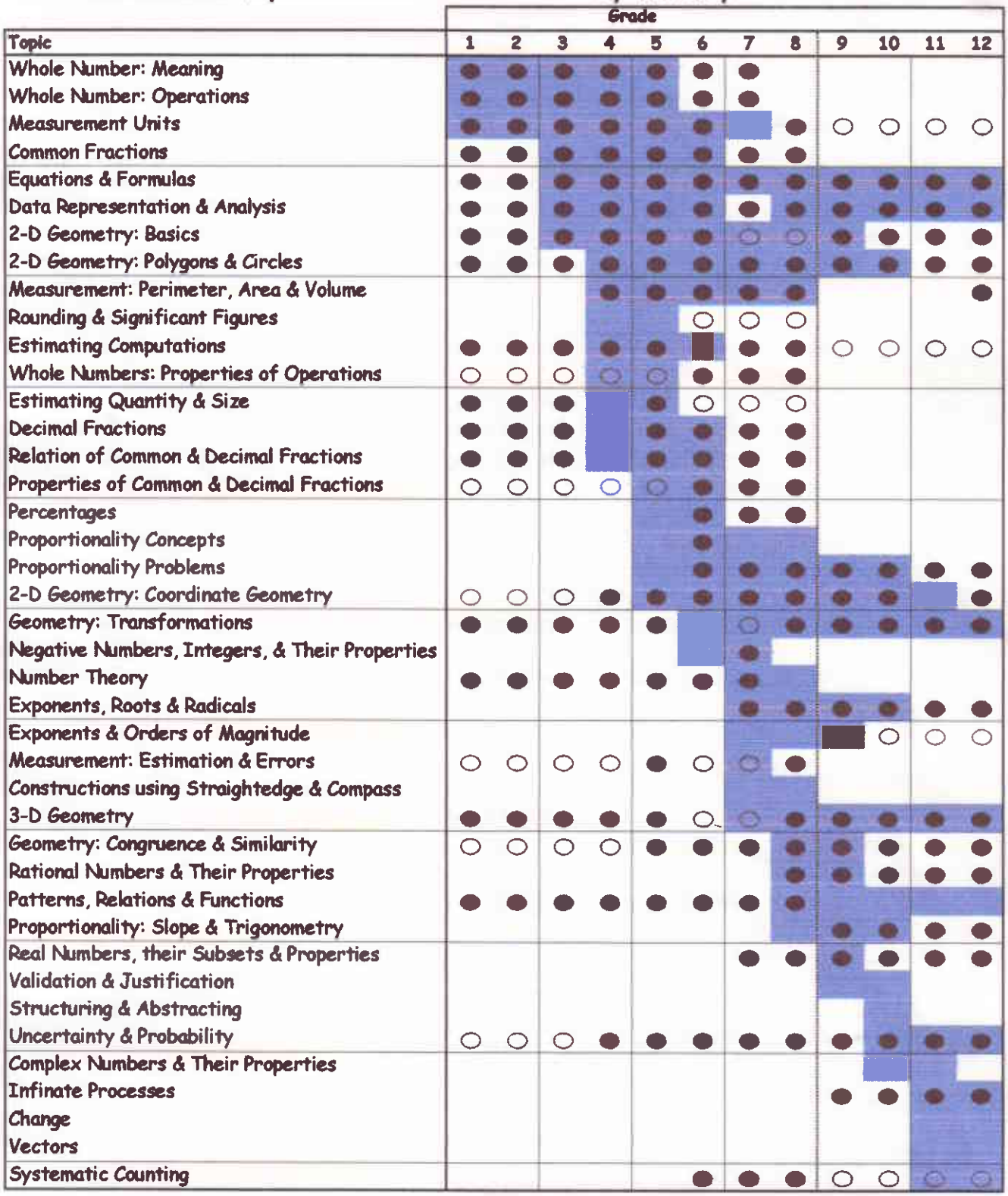
Mathematics Topics Intended at Each Grade by Kentucky



Science Topics Intended at Each Grade by Kentucky

	Grades											
Topic	1	2	3	4	5	6	7	8	9	10	11	12
Organs, tissues	●	●	●	●	●	●			●	●	●	●
Physical properties of matter	●	●	●	●	●	●	●	●	●	●	●	●
Plants, fungi	●	●	●	●	○			●				
Animal types	●	●	●	●	○			●				
Classification of matter	●	●	●	●		●	●	●	●	●	●	●
Rocks, soil	●	●	●	●				●				
Light	●	●	●	●	●							
Electricity	●	●	●	●	●				●	●	●	●
Life cycles	●	●	●	●				○				
Physical changes of matter				●	●	●						
Heat & temperature	●	●	●	●	○	○	●	●	●	●	●	●
Bodies of water						●						
Interdependence of life	●	●	●	●	●	●	●	●	●	●	●	●
Habitats & niches	●	●	●	●								
Biomes & ecosystems	●	●	●	●	○	●	●	●	●	●	●	●
Reproduction							●		●	●	●	●
Time, space, motion	●	●	●	●			●		●	●	●	●
Types of forces					●	●	●		●	●	●	●
Weather & climate	●	●	●	●	●	●		●	●	●	●	●
Planets in the solar system					●				●	●	●	●
Magnetism	●	●	●						●	●	●	●
Earth's Composition							●	●				
Organism energy handling									●	●	●	●
Land, water, sea resource conservation									●	●	●	●
Earth in the solar system	●	●	●	●	●	●	●		●	●	●	●
Atoms, ions, molecules								●	●	●	●	●
Chemical properties of matter	○	○	○	●		●	●	●	●	●	●	●
Chemical changes of matter						●	●		●	●	●	●
Physical cycles					●	●		●	●	●	●	
Land forms						●						
Material & energy resource conservation								●	●	●	●	●
Explanations of physical changes				●								
Pollution								●				
Atmosphere					●				●	●	●	●
Sound & vibration	●	●	●	●								
Cells					●	●		●	●	●	●	●
Human nutrition												
Building & breaking				●		●	●	●	●	●	●	
Energy types, sources, conversions					●	●	●	●	●	●	●	●
Dynamics of motion	●	●	●	●	●	●	●	●	●	●	●	●
Organism sensing & responding						●		●	●	●	●	●

● State Assessment Content Standard
○ Supporting Content Statement
More than Half of Top Achieving Countries

Science Topics Intended at Each Grade for Kentucky (cont'd)

	K	1	2	3	4	5	6	7	8	9	10	11	12
Beyond the solar system									●	●	●	●	
Evolution, speciation, diversity	●	●	●	●	●	●	●	●	●	●	●	●	
Variation and inheritance				●		●	●	●	●	●	●	●	
Explanations of chemical changes									●	●	●	●	
Subatomic particles								○	○	○	○	○	
Macromolecules, crystals, amorphous													
Other organisms									●	●	●	●	
Electrochemistry													
Science applications in math, techn'y								●	●	●	●	●	
Mathematics, techn'y influ on science													
Wave phenomena							○	●	●	●	●	●	
Rate of change & equilibria									●	●	●	●	
Energy & chemical change									●	●	●	●	
Organic & biochemical changes													
Disease and health									●	●	●	●	
World population									●	●	●	●	
Nuclear chemistry									○	○	○	○	
Biochemical processes in cells								○	●	●	●	●	
Biochemistry of genetics							●	○	●	●	●	●	
History of science & technology													
Evolution of the universe								○	●	●	●	●	
Quantum theory & fund'l particles													
Animal behavior				●		●		●	●	●	●	●	
Earth's history							●	●	●	●	●	●	
Kinetic-molecular theory									○	○	○	○	

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