Table: Comparisons of Selected Common Requirements of Algebraic Content Included at the Level of Component Sections Within Algebraic Chapters

Section Topics	<u>HK</u>	<u>CHA</u>	<u>SG</u>	<u>US-A</u>	<u>US1</u>	US2	<u>US3</u>	<u>US4</u>
algebraic identities - $a^2-b^2=(a+b)(a-b)$ $(a+b)^2=a^2+2ab+b^2$, $(a-b)^2=a^2-2ab+b^2$		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$				
computation of algebraic fractions $(+, -, x, /)$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$				
computation of polynomials (+, -, x, /)	$\sqrt{}$		$\sqrt{}$	$\sqrt{}$				
evaluating expressions/formulas	$\sqrt{}$					$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
factorization of polynomials		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$				
fractional equations (e.g., 2/X=4)		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$				
function concepts, tables, etc.				$\sqrt{}$	$\sqrt{}$			
graphing linear equations/functions			$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark
graphing linear inequalities (number line and/or coordinate plane)				$\sqrt{}$		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
graphing quadratic functions			$\sqrt{}$	$\sqrt{}$				
graphing reciprocal functions			$\sqrt{}$		$\sqrt{}$			
graphing systems of linear equations				$\sqrt{}$		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
inverse operations				$\sqrt{}$	$\sqrt{}$			$\sqrt{}$
linear inequalities				$\sqrt{}$	$\sqrt{}$		$\sqrt{}$	\checkmark
linear equations (constant coefficient)				$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	\checkmark
solving systems of linear equations (methods of substitution, elimination)	$\sqrt{}$		$\sqrt{}$	$\sqrt{}$				
literal linear equations	$\sqrt{}$		$\sqrt{}$					
representing algebraic expressions					$\sqrt{}$	$\sqrt{}$		$\sqrt{}$
variations (direct, inverse, joint)				$\sqrt{}$				