Explanation of Testing Accommodations for Students with Disabilities Math Aids – Accommodation Code 19

Accommodations provided as part of the instructional and testing/assessment process will allow students with disabilities equal opportunity to access the Standards of Learning (SOL) assessments. Accommodations based solely on the potential to enhance performance beyond providing equal access are not allowed.

Accommodations used on SOL assessments must be documented in the student's Individualized Education Program/ 504 Plan and used in daily instruction. Using new or unfamiliar accommodations on an SOL test is inappropriate.

Examples of allowed math aids that may provide equal access to the SOL mathematics assessment for some students with disabilities.	Example/ explanation of the allowed accommodations.
Multiplication chart Students allowed to use this accommodation must be found eligible by their IEP/504 teams using the calculator accommodation criteria (Testing Memo #720).	X 1 2 3 4 1 1 2 3 4 2 2 4 6 8 3 3 6 9 12 4 4 8 12 16
Addition Chart Students allowed to use this accommodation must be found eligible by their IEP/504 teams using the calculator accommodation criteria (Testing Memo #720).	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Blank worksheets that assist students in correctly lining up numbers when writing a math problem	+ Product
Grid Blocks Worksheets	
Number Line	←
Counting Strip	123456789

Allowed Math Aids

Hundreds Chart	
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 26 29 30 31 32 23 34 45 46 47 48 49 60 41 42 43 44 45 46 47 48 49 60 51 52 53 54 53 56 57 58 59 60 61 62 63 64 65 66 77 78 59 60 61 62 63 64 65 66 77 78 79 80 61 62 83 84 65 66 77 78 79 80 61 62 83 84 65 66 77 78 89 90 91 92 <t< td=""></t<>
12 inch ruler with centimeters	OIE - els ' 815 ' 715 ' 815 '
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 2 1 2 3 4 5 6 7 8 9 ELASS
Colored shapes	
Cuisenaire Rods	
Video magnifier (for visually impaired students)	
Multiplication Machine Students allowed to use this accommodation must be found eligible by their IEP/504 teams using the calculator accommodation criteria (Testing Memo #720).	

Allowed Math Aids

Abacus	
Blank Fraction Bars	
Golf Beads	
Graph paper	
Fraction circles	

Math Aids Not Allowed

Examples of math aids that have the	Example/ explanation	n of math aids that are not allowed.
potential to enhance performance		—
beyond providing equal access and		
are not allowed for SOL		
mathematics assessments.		
Place Value Chart	THOUSANDS ONE Standy by Standy	S - DECIMALS Storesson Storeson Storesson Storesson Storesson Storesson Storesson Storesson Stor
	6 5 8 4 7 9 1 0	3 2 4
Fraction Chart		
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \frac{1}{3} $ $ \frac{1}{4} $ $ \frac{1}{5} $ $ \frac{1}{6} $ $ \frac{1}{7} $ $ \frac{1}{8} $ $ \frac{1}{7} $ $ \frac{1}{10} $ $ \frac{1}{10} $
Problem solving key words charts	Addition	increased by
	Addition	more than combined, together total of sum added to
	Subtraction	decreased by minus, less difference between/of less than, fewer than
Measurement Conversion Charts	Measurement Comment Comment </th <th>Conversion Table 1 of a 2014 net 1 a 2013 pr 1 c 2017 pr 1 c 2017 pr 2 c 2017 pr 2 c 2018 pr 2 c 2018</th>	Conversion Table 1 of a 2014 net 1 a 2013 pr 1 c 2017 pr 1 c 2017 pr 2 c 2017 pr 2 c 2018

Math Aids Not Allowed

Temperature conversion charts				
F	Ce	lsius °C	Fahrenheit °F	
	-	-30 °C	-22 °F	
	-	-20 °C	-4.0 °F	
	-	-10 °C	14.0 °F	
		0 °C	32.0 °F	
		1 °C	33.8 °F	
		2 °C	35.6 °F	
	<u>).</u>			
Elapsed time ruler	Elapsed Time Line		anganangangangangangangan 1931-1911-1911-1911-1911-1911-1911-1911	
Charts of formulas and/or symbols	AREA Formula Rectangle b A = bh b D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D D		Attendentics Symbol	ls
Rounding charts	ROUNDING RULL FOR WHOLE NUMB Underline place value asked f Circle number to the right of the number. If circled number is 5 or more number goes up 1. If circled number is less than number stays the same. All numbers behind the under change to 0's. <u>Examples:</u> <u>3,256 (to nearest thousand</u> 5,629 (to nearest ten)	ES BERS for. underlined a, the underlined $5, the underlinedrlined number,a) \rightarrow 3,000\rightarrow 5,630$		

Clocks						
Coins, bills (real and play money)						
			Anna and a second			
Vocabulary Charts						
		Word		Definition		
		Acute angle	An angle that measur	es between 0 and 9	90 degrees	
		Acute triangle	All angles in the triar	ngle are acute		
		Adjacent angles	Two coplanar angles i no common interior p	with a common side oints	, a common vertex, and	
		Angle	The shape formed by the same endpoint (c geometry an angle ca and vertex.	y two rays (called s alled the vertex of n be defined by th	des of the angle) with the angle). In e vertex or by the rays	
		Angle bisector	A ray that divides an	angle into two con	gruent (equal) angles	
		Arc	Part of a circle			
Tables of Measures						
	from \ to	= feet	= inches	= miles	= yards	
	foot		12	1/5280	1/3	
	inch	1/12		1/63360	1/36	
	mile	5280	63360		1760	
	yard	3	36	1/1760		

Time conversion charts	
	Time 1 minute = 60 seconds 1 hour = 60 minutes = 3600 seconds 1 day = 24 hours 1 week = 7 days 1 year = 365 1/4 days (for the Earth to travel once around the sun)
Charts that demonstrate how a	SOLVING WORD PROBLEMS
mathematics problem is solved	 Read the problem carefully. Cross out unnecessary information. Show your work. Don't do it in your head. Don't erase your mistakes. Cross out errors instead. Re-read your problem and check your answers. Draw a picture that illustrates the problem. Write in your own words how you got your answer.
Gallon Man	st lotte
Set of weights	
Base 10 Blocks	
Scissors	

Money Equivalency Chart	U.S. Money Equivalency
Time Equivalency Chart	Time 1 minute (min) = 60 seconds (sec) 1 hour (hr) = 60 min 1 day = 24 hr 1 week = 7 days 1 year = 12 months = 365 days
Tally Mark Chart	I = 1 $NIII = 6$ $II = 2$ $INIII = 7$ $III = 3$ $NIIII = 8$ $IIII = 4$ $INIIII = 9$ $IN = 5$ $ININ = 10$
Shape Chart	Geometric Shapes