Content Standard		MAFS.4.MD Measurement and Data		
		 MAFS.4.MD.1 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. MAFS.4.MD.1.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. For example, know that 1 ft is 12 times as long as 1 in. Express the length of a 4 ft snake as 48 in. Generate a conversion table for feet and inches listing the number pairs (1, 12), (2, 24), (3, 36), 		
Assessment Limits		 Measurement units are within a single system. Measurement conversions are from larger units to smaller units. Multiplication is limited to 4-digit numbers by 1-digit numbers and two 2-digit numbers (MAFS.4.NBT.B.5). Units of measurement include: kilometer, meter, centimeter, millimeter, liter, milliliter, kilogram, gram, milligram, mile, yard, foot, inch, gallon, quart, pint, cup, ton, pound, and ounce. 		
Calculator		No		
Acceptable Response Mechanisms		Equation Response Graphic Response – Drag and Drop Matching Response Multiple Choice Response Multi-Select Response Table Response		
Context	Allowab	le		
Example				
Context		ne dimensions and mass of containers to solve problems (can include non-adjacent units re separated by 1 other unit. For example, yard to inches). Student selects two ures.		
Context	One me	measurement is given.		
easier		imit multiplication to 1- and 2-digit numbers.		
Limit c		onversions to adjacent units (i.e., feet to inches).		
Studen		t selects one measure.		
Context	No measurements given.			
more	Increase the number of digits in multiplication to include 3-digit numbers.			
		sions of non-adjacent units that are separated by two or more (i.e., gallons to cups).		
Student		t selects three measures.		

Sample Item Stem	Response Mechanism	Notes, Comments
Select all the objects that are close to an	Multi-Select Response	
inch long.		
o A textbook		
o A paperclip		
• A new pencil		
o A 25-cent coin		
 A telephone 		
Select all the measurements that are	Multi-Select Response	
close to a yard.		
 The length of a student's desk 		
 The height of a classroom 		
 The width of a classroom door 		
 The length of a movie ticket 		
 The height of a building 		
A table is shown.	Table Response	
Inches Feet		
Container 1 24		
Container 2 3		
Complete the table to show the missing		
dimensions.		
The heights of three boxes are shown.	Graphic Response –	
Drag one measurement into each box to	Drag and Drop	
order the boxes from shortest to tallest.		
Order from shortest to tallest		
2 yards 5 feet 37 inches		