## Transition to Technical Math Unit Rubrics **Health Sciences**

Standard	4 - Mastery	3 - Proficient	2 - Basic	1- Below Basic	0 - No Evidence
TM-NS1.A. Analyze proportional relationships and use them to solve contextualized and mathematical problems.	proportions for quantities with an authentic task.	A. Set-up and solve a proportion as part of an authentic task. Including units when applicable. AND A. Describe the proportional relationship between quantities within an authentic task.	A. Set up a proportion and solve.	A. Set up a single ratio using units.	A. Not yet able to setup a ratio or proportion.
TM-NS1-B. Compute unit rates associated with ratios of fractions, decimals, and percents and including ratios of lengths, areas and other quantities measured in like or different units.	calculation errors within an authentic task.		B. Calculate unit rates from like and unlike units of quantities.	B. Calculate unit rates of like units of quantities.	B. Not yet able to calculate rates.
TM-NS1-D. Convert between forms as appropriate.	decimal, common fractions,		D. Convert between decimal, common fractions, and percentages	forms. (ie fraction to	D. Not yet able to convert between decimal, common fractions, and percentages
measurement units within a given measurement system	A. Accurately convert units among and between systems and determine which system is more applicable to the given scenario.	A. Convert units within a measurement system and between systems within an authentic task.		same measurement system.	A. Not yet able to convert units between like or unlike systems.
among different sized standard and/or metric	among and between systems and determine which system and/or unit is more applicable to the	units within a measurement system and		system and measurement units are appropriate to use within an authentic task and	
reasoning (dimensional	Apply multiple ratios to solve an authentic task.	C. Apply dimensional analysis to convert units, including distance and rates, within an authentic task.	C. Apply dimensional analysis to convert a measurement.	C. Recognize which ratio must be used to convert to measurement.	C. Not yet able to convert measurement units within a ratio.
values for their	each other and how changes can affect the final value in an authentic task.	expressions containing common integer, decimal,		expressions with integer	A. Not yet able to accurately evaluate an expression for a given value.

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	conclusion, based on the		A. Can estimate values to make conclusions from a variety of visual representations.		A. Not yet able to make conclusions from different types of visual representation of data.
charts, maps, and dashboards.					
TM-NS4-B. Identify and interpret trends, patterns, and relationships from graphs and charts.	predictions based on the identification and interpretation of trends and	B. Identify and interpret trends, patterns, and relationships from graphs and charts in an authentic situation.	B. Can compare and state differences, general characteristics, or trends of graphs.	general characteristics, or	B. Not yet able to interpret trends, patterns or relationships from graphs and charts.
TM-NS4-D. Make and justify decisions based on data.	person's decision and process used.	D. Explain and justify, using data and information as support, a decision made while solving an authentic task.	D. Make a decision and recite the process used to make a decision when solving an authentic task.	D. Make a decision while solving an authentic task, may be a correct or incorrect decision.	D. Not yet able to make a decision without guided support or examples.
TM-G2.D. Represent applied problems by graphing points in the coordinate plane and interpret coordinate values of points in the context of the situation.	label axis, scale, coordinates from an authentic task.	D. Graph and interpret meanings of coordinate points from an authentic task with given origin and scale	D. Graph contextual situation on a coordinate plane with a given labeled axis.	D. Can graph points and give coordinates of points on a graph.	D. Not yet able to recognize coordinates of points or graph points.
TM-BA3-C. Choose and interpret units consistently in formulas.	C. Justify final unit measure selection.	C. Interpret units of measure in a formula within an authentic task.	C. Recognize different unit measures within a problem and convert correctly.	C. Determine appropriate units for final answers.	C. Not yet able to choose units of measure in formulas.
TM-BA3-D. Apply appropriate formulas to solve applications.	formulas used to solve problems in an authentic	D. Select and apply appropriate formulas to solve problems in an authentic task.	D. Select the appropriate formula to solve an authentic task.	D. Determine correct formula for an authentic task when given options.	D. Not yet able to apply formulas within an authentic task.