

8th Grade Module 5 – Examples of Functions from Geometry

	4 - Mastery	3 - Proficient	2 - Basic	1 - Below Basic	0 - No Evidence
Topic A (8.F.1, 8.F.2, 8.F.3)	<p>Meets all of the criteria in a Level 3</p> <p>Completes tasks including synthesis and evaluation</p>	<p>Identify functions from all of the following and justify your reasoning:</p> <ul style="list-style-type: none"> • graphs • tables • ordered pairs <p>Compare properties of a function represented in different ways (algebraically, graphically, tables, or verbal descriptions)</p> <p>Explain if a function is linear or non-linear</p>	<p>Identify functions from 2 of the following and justify your reasoning:</p> <ul style="list-style-type: none"> • graphs • tables • ordered pairs <p>Identify properties of a function represented in different ways (algebraically, graphically, tables, or verbal descriptions)</p> <p>Given a function, identify if a function is linear or non-linear</p>	<p>Identify functions from 2 of the following:</p> <ul style="list-style-type: none"> • graphs • tables • ordered pairs <p>Given a graph, identify if a function is linear or non-linear</p>	<p>Shows no evidence of proficiency</p> <p>Little evidence of reasoning or application to solve the problem.</p>
Topic B (8.G.9)	<p>Meets all of the criteria in a Level 3</p> <p>Completes tasks including synthesis and evaluation</p>	<p>Use the volume formulas for all of the following to solve real world problems:</p> <ul style="list-style-type: none"> • cones • cylinders • spheres 	<p>Use the volume formulas for all of the following to solve mathematical problems:</p> <ul style="list-style-type: none"> • cones • cylinders • spheres 	<p>Use the volume formulas for two of the following to solve mathematical problems:</p> <ul style="list-style-type: none"> • cones • cylinders • spheres 	<p>Shows no evidence of proficiency</p> <p>Little evidence of reasoning or application to solve the problem.</p>

8.F.A.1 - Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output. Represent a function as a mapping from one set onto another. (Function notation is not required.)

8.F.A.2 - Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).

8.F.A.3 - Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear.

8.G.C.9 - Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.