Unit 6: Radical Functions

	4 – Mastery	3 – Proficient	2 - Basic	1 – Below Basic	0 – No Evidence
Solve radical equations (A.REI.2)	Can extend thinking beyond the standard, including tasks that may involve one of the following: • Designing • Connecting • Synthesizing • Applying • Justifying • Critiquing • Analyzing • Creating • Proving	Solve a radical equation **with multiple radicals** and identify extraneous solutions	Solve a radical equation **with a variable on both sides and identify extraneous solutions**	Solve a **multi-step radical equation**	Little evidence of reasoning or application to solve the problem Does not meet the criteria in a level 1
Interpret key features(F.IF.4)		Identify and compare key features of two functions represented in **all** of the following ways • algebraically • graphically • tables • in context	Identify and compare key features of two functions represented in **three** of the following ways • algebraically • graphically • tables • in context	Identify and compare key features of two functions represented in **two** of the following ways • algebraically • graphically • tables • in context	
Average rate of change (F.IF.6)		Calculate the average rate of change over a given interval **and explain the meaning in context.**	**Calculate** the average rate of change over a given interval	**Describe** the average rate of change over a given interval	
Compare functions from different representations (F.IF.9)		Compare key features of two functions represented • algebraically • graphically • numerically in tables • verbal descriptions Key features include: • intercepts • domain/range • increasing or decreasing • **positive or negative** • **symmetries** • **end behavior**	Compare key features of two functions represented • algebraically • graphically • numerically in tables • verbal descriptions Key features include: • intercepts • domain/range • **increasing or decreasing**	Compare key features of two functions represented • algebraically • graphically • numerically in tables • verbal descriptions Key features include: • intercepts • domain/range	
Transformations using k (F.BF.3)		Identify the effect on a graph by replacing f(x) with **more than two** transformations: $f(x) + k$, $a\,f(x)$, $f(bx)$, $f(x + h)$ for specific positive and negative values of the constants a, b, h, and k Write a function given **more than two transformations.**	Identify the effect on a graph by replacing f(x) with **two** transformations: $f(x) + k$, $a\,f(x)$, $f(bx)$, $f(x + h)$ for specific positive and negative values of the constants a, b, h, and k Write a function given **two transformations.**	Identify the effect on a graph by replacing f(x) with a **single** transformation: $f(x) + k$, $a\,f(x)$, $f(bx)$, $f(x + h)$ for specific positive and negative values of the constants a, b, h, and k Write a function given **a transformation**.	