Content: Math Grade		Grade Level: 8 th
Standard: 8.EE.2 Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational.		
I can statements:		
• Use square root symbols to represent solutions to equations in the form $x^2 = p$ where p is a positive rational number.		
• Use cube root symbols to represent solutions to equations in the form x ³ = p where p is a positive rational number.		
 Recognize that squaring a number and taking the square root of a number are inverse operations. 		
 Recognize that cubing a number and taking the cube root of a number are inverse operations. 		
• Evaluate square root of a perfect square.		
• Evaluate the cube roots of a perfect cube.		
• Explain why the square root of a non-perfect square is irrational.		
Score	In addition to Score 3.0, in-depth inferences and applications that go	beyond Sample Activities
4.0	what was taught.	• $5x^3 + 2x^2 - 10 = 2x^2 + 10$
	3.5 In addition to score 3.0 performance, in-depth inferences and applications with par	tial success.
Score 3.0	 The student: Use inverse operations to solve x² = p and x³ = p equations where positive rational number. Explain why the square root of a non-perfect square is irrational. The student exhibits no major errors or omissions. 	p is a • $x^2 = 6$ • $y^3 = 30$ • $\left(\frac{1}{3}\right)^3$ • $\sqrt[3]{\frac{1}{27}}$ • What is the side length of a square with an area of 49 ft ² ? • Is $\sqrt{10}$ rational or irrational? Explain why.
	2.5 No major errors or omissions regarding 2.0 content and partial knowledge of the 3.	0 content.
Score 2.0	 There are no major errors or omissions regarding the simpler details and processes as the student: recognizes or recalls specific terminology, such as: square/square root cube/cube root performs basic processes, such as: Evaluate square root of a perfect square. Evaluate the cube roots of a perfect cube. 	d • $\sqrt{16}$ • 4^2 • $\sqrt[3]{125}$ • Give an example of a number that is a perfect square.
	However, the student exhibits major errors or omissions regarding the complex ideas and processes.	nore
L	1.5 Partial knowledge of the 2.0 content, but major errors or omissions regarding the 3	.0 content.
Score	With help, a partial understanding of some of the simpler details and processes and som	ne of the
1.0	0.5 With help, a partial understanding of the 2.0 content, but not the 3.0 content	
Score	Even with help, no understanding or skill demonstrated.	
0.0		