What is Pythagorean Theory and how does Pythagorean Theory connect, relate, describe and measure, lines and shapes in our world?

Goals	NEED to know	MUST know (30) 6 each	ABLE to know (15) 3 each	POSSIBLE to know (5) 1 each
What do I need to know? What is Pythagorean Theory?	I know square root, square, area, right triangle, rectangle, Squares vs rectangle, square compared to other shapes, area of square, all sides are equal, square root, right triangle	I know where Pythagorean theorem can be used in the world	I know how to derive the formula for Pythagorean theorem	I know how to find a missin[g] side of a right triangle usin[g] Pythagorean theorem
What do I need to do? How does reason and analysis help me understand?	I can estimate by comparing numbers I can using concrete materials to understand above concepts	I can use perfect square numbers Building a model using concrete materials	I can use non perfect squares numbers I can use drawings, pictures and diagrams	I can use non whole numbe[r] I can apply a formula
How can I understand and solve problems?	I can find a right triangle OR find a rectangle and make it into a right triangle in the environment	Use an example connected to personal/ familiar experience	Use an example from a context unfamiliar (e.g. word problem)	Use an example connected to first the first nations constellations
How can I represent and communicate my thinking?	I can use math vocabulary (square, square root, rectangle, triangle, equal) I can explain and justify my thinking in one way (abstract/concrete/pictorial)	I can use math vocabulary (right triangle) I can explain and justify my thinking in one way (abstract/concrete/pictorial)	I can use math vocabulary (Pythagorean theory, formula, non-perfect square I can explain and justify my thinking in two ways (abstract/concrete/pictorial)	I can use math vocabulary with fluency I can explain and justify my thinking in any way (abstract/concrete/pictorial[)]
How can I connect and reflect on my thinking?	I can connect ideas to situations in the world	I can find another solution to a problem	I can pose a new problem or question	I can describe how Pythagorean connects to o[ur] self and world around us (e[.g.] connect to First Nations)
Comments:		/ 30	/ 15	

Core Competencies: Personal Competencies: Personal Awareness and Responsibility				
Self-Assessment PRE _____ POST				
How can I self-regulate to support and sustain my learning and wellbeing?	I can identify choices, supports, strategies, that help manage my learning and emotions	I can choose activities in math class that support feeling comfortable learning and trying new things, I know how these choices help me	I can accept responsibility for my physical and emotional actions in math class I can manage my feeling and emotion in math class	I take ownership of my learning, goals, and behavi in math class

What is a new skill I learned? What is a skill I was reminded of that is useful?

How do I know I have learned this skill?

How did these skills help me be more successful during this class?

How can I use the skills that I have learned in other contexts?

Learning Maps: ADSS & Moore, 2016