Rubric to Assess Math Curricular Competencies

Curricular Competencies	Criteria	Emerging	Developing	Proficient	Extending
Interpret	Can I understand what the question/problem is asking?	With support, I can understand what the question/ problem is asking.	I can sometimes understand what the question/ problem is asking myself but I sometimes need support.	I can consistently understand what the question/ problem is asking by myself.	I can understand the sophisticated problems and what I need to do.
Model	When given a word problem or a scenario, can I create a mathematical model (ex. diagram, equation, etc) to represent the situation?	With support, I can create a mathematical model to represent a situation.	I sometimes can create a mathematical model to represent a situation myself but I sometimes need support.	I can consistently create a mathematical model to represent a standard situation by myself.	I can model sophisticated problems.
Solve	Can I do the math accurately?	With support, I can solve the problem, but I make many errors.	I can sometimes solve the problem but there are often errors and I sometimes need support	I can consistently solve the problem often without errors by myself.	I can solve sophisticated problems that I have not seen before. I can apply my understanding of concepts to solve new problems.
Analyze	Can I logically explain and justify the process used in arriving at my solution to the problem? Can I estimate and	I can't logically explain the process used in arriving at my solution to the problem. I can't estimate	I can sometimes logically explain the process used in arriving at my solution to the problem. I can sometimes	I can consistently and logically explain the process used in arriving at my solution to the problem by myself. I can consistently	I can analyze sophisticated problems.
	use my estimation to check if my final solution is reasonable?	an answer without technology. I'm not sure if my final answer is reasonable.	estimate an answer without technology. I sometimes know if my answer is reasonable.	estimate an answer without technology by myself. I always know if my answer is reasonable.	

Communication	Can I clearly show, explain and organize all steps when solving math problems? Is my Math work organized and neat?	My work is unorganized. Often, only the answer is shown without any supporting steps.	My work is often unorganized. Sometimes, only an answer is given without any support. If there is some work shown, it is often missing steps.	My work is always neat and organized. Answers are always fully supported with clear logical steps.	I use the language of mathematics to clearly and accurately communicate my solution.
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Persistence and Positive Attitude	Learning math often takes time and persistence. I know this and don't give up easily.	I give up easily. I often shut down when I get frustrated.	I usually give up when I don't get it. Sometimes I will ask for help or try again, but I often get frustrated and move on.	I always ask for help if I don't understand and I try again until I get it. Sometimes I get frustrated, but usually I find a way to work through it.	When I get stuck or have difficulty understanding, I use the resources I need and patiently take the time I need and persevere to learn.
Reflect on your learning	What do I know? What do I still need to work on? What resources do I need to learn? How do I learn best?	I am unaware of how I am doing in Math. I don't reflect on my learning. I do not complete the HDID. I do not learn from my mistakes.	I am somewhat reflective. I often complete the HDID, although maybe with not a lot of thought. I sometimes learn from my mistakes.	I know what my strengths and weaknesses are. I always complete the HDID in a detailed, thoughtful way. I usually learn from my mistakes.	I can clearly explain what my strengths and weaknesses are. I always complete the HDID in a detailed, thoughtful way. I always learn from my mistakes.