



PROCESSOR

*I encourage **analytical thinking** – and am always interpreting and modeling mathematical patterns and relationships in order to amplify meaning.*

Who am I?

You are an avid listener and deep thinker. You are admired for your ability to consider points of view from multiple sources and produce one cohesive collection of words and images (*synthesis – yes!!*). You can often be found breaking a problem into parts to help you understand how it is put together. And you love using diagrams, symbols, and pictures to focus and clarify the mathematical reasoning of yourself and others. Your aura of warmth and sincerity puts everyone at ease as your team works together bringing thoughts and ideas to life. Once you get into the groove on a task or project, you prefer to stay the course until the job is done. And because you take such great pride in your work, you are responsible for recording and refining your team's ideas and solutions until they are clearly illustrated and thoroughly explained.

It is my job to ...

- Record our team's mathematical thinking, argumentation, and solution pathways
- Break apart problems into smaller parts to explore how they are constructed
- Notice and discern the mathematical patterns and structure of a given situation
- Utilize various methods of representation (e.g. diagrams, pictures, graphs) to focus and clarify our work
- Synthesize complexities from multiple sources to generate a cohesive set of ideas
- Work closely with my team's Developer to maintain a welcoming and inclusive environment, where all members of the team feel safe to share their thinking

I ask questions like ...

- How can we visually illustrate our mathematical thinking in this situation?
- Is there more than one way to interpret the structure of this problem?
- What relationships and patterns can we find in this problem?
- Can we connect this problem to mathematical concepts we have already learned to help us understand what we are being asked to do?
- How can we model and explain our mathematical process so that others will be able to follow our train of thought?

MATHEMATICAL PRACTICES

MP 4 *Model with mathematics.*

MP 7 *Look for and make use of structure.*