**Guiding Questions:**

**How Do I Talk with My Peers?**

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| **Rules of Discourse*** Be respectful.
* Seek to understand before being understood.
* Ask clarifying questions.
* Separate yourself from your ideas and be open to new ideas.
* Challenge ideas, but respect each other's views.
* Explain and justify your ideas/responses.
* Know that you are responsible for the quality of the discussion.
* Be additive and not repetitive.
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**Possible Questions to Ask:**

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| **Standards for Mathematical Practice** | **Possible Questions** |
| 1) Make sense of problems and persevere in solving them | * How would you describe the problem in your own words?
* What information is given in the problem?
* Describe what you have already tried. What might you change?
* What are some other strategies you might try?
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| 2) Reason abstractly and quantitatively | * What do the numbers used in the problem represent?
* What is the relationship of the quantities?
* How did you decide in this task that you needed to use …?
* Could we have used another operation or property to solve this task?
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| 3) Construct viable arguments and critique the reasoning of others | * What mathematical evidence would support your solution?
* How can we be sure that...? / How could you prove that…?
* What were you considering when…?
* Did you try a method that did not work? Why didn't it work? Would it ever work? Why or why not?
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| 4) Model with mathematics | * What number model could you construct to represent the problem?
* What is an equation or expression that matches the diagram, number line, chart, table, etc…?
* What are some ways to visually represent…?
* What formula might apply in this situation?
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| 5) Use appropriate tools strategically | * What mathematical tools could we use to visualize and represent the situation?
* What do you know that is not stated in the problem?
* What approach are you considering trying first?
* In this situation would it be helpful to use a graph, number line, ruler, diagram, calculator, manipulative?
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| 6) Attend to precision | * How did you know your solution was reasonable?
* Explain how you might show that your solution answers the problem.
* Is there a more efficient strategy?
* What symbols or mathematical notations are important in this problem?
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| 7) Look for and make use of structure | * What observations do you make about…?
* What parts of the problem might you simplify?
* What ideas that we have learned before were useful in solving this problem?
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| 8) Look for and express regularity in repeated reasoning | * Explain how this strategy could work in other situations.
* Is this always true, sometimes true or never true?
* How would we prove that…?
* What predictions or generalizations can this pattern support?
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