### QUESTIONS TO ASK THAT MOVE STUDENTS TO BECOME MATHEMATICALLY PROFICIENT
(from: [http://elementarymath.cmswiki.wikispaces.net/Standards+for+Mathematical+Practice](http://elementarymath.cmswiki.wikispaces.net/Standards+for+Mathematical+Practice))

<table>
<thead>
<tr>
<th>Practice</th>
<th>How did the student demonstrate this practice?</th>
</tr>
</thead>
</table>
| **1 Make sense of problems and persevere in solving them.**             | • How would you describe the problem in your own words?  
  • What do you know that is not stated in the problem?  
  • Could you try this with simpler numbers? Fewer numbers?  
  • Would it help to create a diagram? Make a table? Draw a picture? |
| **2 Reason abstractly and quantitatively.**                             | • What does it mean when… |
| **3 Construct viable arguments and critique the reasoning of others.**  | • What do you think about what _____ said?  
  • Do you agree? Why/why not?  
  • Can you explain what ____ is saying?  
  • Can you explain why his/her strategy works?  
  • How is your strategy similar to ____’s?  
  • Can you convince the rest of us that your answer makes sense? |
| **4 Model with mathematics.**                                           | • What number sentence represents your drawing/picture/representation?  
  • How could we use symbols to represent what’s happening? |
| **5 Use appropriate tools strategically.**                              | • How did using that tool help you solve the problem?  
  • If we didn’t have access to that tool, what other one would you have chosen? |
| **6 Attend to precision.**                                              | • Can you tell me why that is true?  
  • How did you reach your conclusion?  
  • How does your answer connect to the question? Does it make sense?  
  • Can you make a model to show that?  
  • Can you convince the rest of us that your answer makes sense?  
  • What new words did you use today? How did you use them? |
| **7 Look for and make use of structure.**                               | • How do you know your rule/equation will always work? |
| **8 Look for and express regularity in repeated reasoning.**            | • Is there a shortcut / algorithm you could use? |