

December 2018

# Muir Lesson Study News!

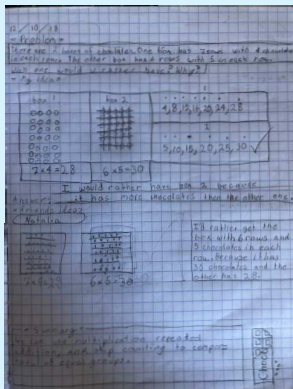
Ms. Casey's students self assess their learning at the end of each math class!

**Our Third Grade Team** is deep in the study portion of the lesson study process. They have decided to engage in a learning module created by Mills College to help them better understand the progression of fractional reasoning in third grade. At the same time, they are focused on Step 3 in the Steps towards Productive Talk and Questioning: **Helping students deepen their own reasoning.** They also created sentence stems for students to provide language access to our scholars. Check out their sentence stems!

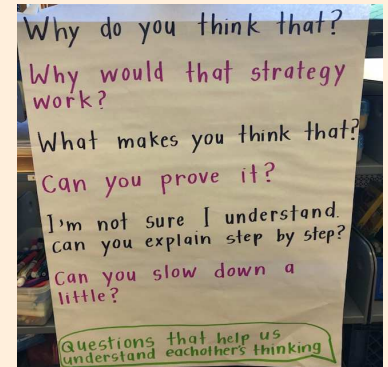
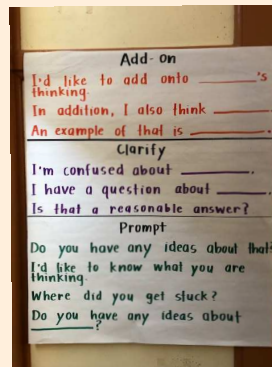
<b>Agree</b>	I agree with _____ because _____. I agree, but I also think _____.
<b>Disagree</b>	I disagree with _____ because _____. I'm not sure I agree with what _____ said because _____. I see it differently because _____.

Add-on	Clarify	Prompt
I'd like to add on to _____'s thinking.	I'm confused about _____.	Do you have any ideas about that?
In addition, I also think _____.	I have a question about _____.	I'd like to know what you're thinking.
		Where did you get stuck?

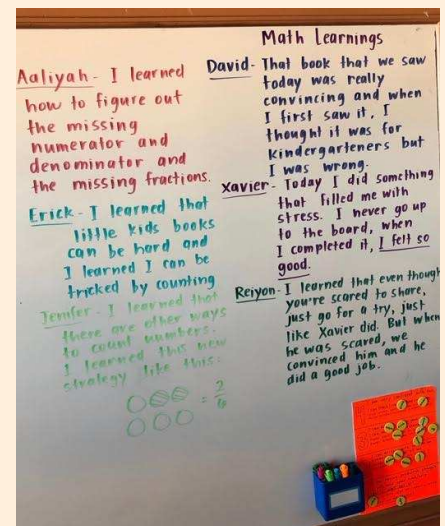
They are also working on developing the use of notebooks and board work to make student thinking visible in their classrooms. Take a look at this Math notebook from Mr. S's class and some students deep in thought around board work in Mr. Tamsky's class!



**Our 4/5 Team** is also thinking deeply about what kinds of questions we are asking our students. They are working on Step 3: **Helping students deepen their own reasoning** and Step 4: **Helping students engage in the reasoning of others.** The team has decided to focus on using specific questions with students that they believe will best support students ability to construct viable arguments and critique the reasoning of others. Ms. Cowles, our Literacy "only" member, has been applying the same questioning stems to her Reader's Workshop lessons. She's found them particularly useful in her students study of non-fiction text!



The 4/5 Team uses Questioning Anchor Charts like these.



The 4/5 team posts student math reflections daily as one way to make student thinking visible in their classrooms.