Teacher: _____ Date: _____ Time In: _____ Observer: _____

Grade/Subject: _____ Time Out: _____

Math Practice #1: Make sense of the problems and persevere in solving them.

Teacher Evidence	Student Evidence
☐ Set ground rules for groups	☐ Working efficiently in groups
☐ Asking questions without giving answer	☐ Explore & find the answer in their groups
☐ Finding a way for student success	☐ Develops a plan to solve
☐ Other _____	☐ Checks and evaluates solutions
	☐ Other _____

Math Practice #2: Reason abstractly and quantitatively.

Teacher Evidence	Student Evidence
☐ Meaning based instruction(math sense)	☐ Use math sense
☐ Emphasizes symbols and reasoning	☐ Convert math problems in word problems
☐ Encourages problem solving	☐ Convert word problems into math problems
☐ Other _____	☐ Other _____

Math Practice #3: Construct viable arguments and critique the reasoning of others.

Teacher Evidence	Student Evidence
☐ Stops telling the answer	☐ Students figure out answer
☐ Establish correct ways of speaking	☐ Learn how to speak effectively
☐ Develop lesson to allow for group discussion and critiques	☐ Justify/defend their solution
☐ Other _____	☐ Critique other groups answers
	☐ Other _____

Math Practice #4: Model with Math

Teacher Evidence	Student Evidence
☐ Shows students how to represent ideas with objects, symbols, pictures	☐ Solve by use with models, diagrams, pictures
☐ Helps students blend visual and numerical info	☐ Connect their visual world with math
☐ Shows students how to use technology to get ideas for models	☐ Use technology to get ideas for model
☐ Provide opportunity for students to use models to express how they got the answer	☐ Use models to demonstrate how they got their answer
☐ Other _____	☐ Other _____

Math Practice #5: Use appropriate tools strategically.

Teacher Evidence	Student Evidence
☐ Shows the basics on how to use tool	☐ Have math tool box (tools)
☐ Provide problem solving with use of tool	☐ Use tools to help solve problem
☐ Establishes group work procedures	☐ Google topic to get deeper meaning
☐ Other _____	☐ Use technology to make models
	☐ Other _____

Math Practice #6: Attend to precision.

Teacher Evidence	Student Evidence
☐ Provide math tools	☐ Using tools to calculate efficiently
☐ Stress vocabulary discussion	☐ Study and speak vocabulary
☐ Establish procedures for students to express answers precisely	☐ Express their answers precisely using symbols and units of measure
☐ Other _____	☐ Other _____

Math Practice #7: Look for and make sense of structure.

Teacher Evidence	Student Evidence
☐ Creates classroom where students look for patterns	☐ Looks for patterns in answers
☐ Use patterns/structure to develop conceptualize learning	☐ Use diagrams, models, and manipulative to derive pattern
☐ Other _____	☐ Use mental math
	☐ Other _____

Math Practice #8: Look for and express regularity in repeating reasoning.

Teacher Evidence	Student Evidence
☐ Provide lessons that promote the use of patterns or structure to develop concept	☐ Working in groups to share and discuss patterns
☐ Practice students to use mental math	☐ Use of mental math
☐ Have students generate data	☐ Use data and computers to recognize patters
☐ Other _____	☐ Present data to class and defend their pattern
	☐ Look for shortcuts
	☐ Other _____