Standards for Mathematical Practice Look-fors

Mathematical Practices
Make sense of problems and persevere in solving them 1. Students: Are engaged in solving problems 2. Teacher: Provides time for students to discuss problem solutions
Reason abstractly and quantitatively 1. Students: Are able to contextualize and/or decontextualize problems 2. Teacher: Provides appropriate representations of problems
Construct viable arguments and critique the reasoning of others 1. Students: Understand and use prior learning in constructing arguments 2. Teacher: Provides opportunities for students to listen to or read the conclusions and arguments of others
Model with mathematics 1. Students: Analyze relationships mathematically 2. Teacher: Provides contexts for students to apply the mathematics learned
Use appropriate tools strategically 1. Students: Use technological tools to deepen understanding 2. Teacher: Uses appropriate tools (e.g. manipulatives) instructionally
Attend to Precision 1. Students: Based on a problem's expectation, students calculate with accuracy and efficiency. 2. Teacher: Emphasizes the importance of precise communication.
Look for and make use of structure 1. Students: Look for patterns 2. Teacher: Provides time for applying and discussing properties
Look for and express regularity in repeated reasoning 1. Students: Regularly check the reasonableness of their results 2. Teacher: Encourages students to look for and discuss regularity in reasoning

The content in this document was created by Dr. Francis (Skip) Fennell.