

MAFS Mathematics Classroom – “Look Fors”

Standards for Mathematical Practice

Students will demonstrate the ability to:

 = Evident

1. Make sense of problems and persevere in solving them.

Look for teachers...

- ☐ Asking probing questions.
- ☐ Placing emphasis on process rather than answer.
- ☐ Discussing varied approaches

2. Reason abstractly and quantitatively.

Look for teachers...

- ☐ Posing problems and guiding students as they build on mathematical concepts.
- ☐ Modeling the writing of problems to illustrate concepts.
- ☐ Consistently connecting symbolic and real situations.

3. Construct viable arguments and critique the reasoning of others.

Look for teachers...

- ☐ Asking “Why?”
- ☐ Asking students to defend their answers verbally and in writing.
- ☐ Establishing a safe environment for discussions.
- ☐ Guiding students without giving too much assistance (e.g., providing answers).

4. Model with mathematics.

Look for teachers...

- ☐ Using models during teacher demonstrations.
- ☐ Showing varied models (including real world connections).
- ☐ Supplying students with materials to use to model math ideas.

- ☐ Encouraging students to use models as they solve problems.

5. Use appropriate tools strategically.

Look for teachers...

- ☐ Making tools available for learning (concrete models, pencil/paper, number line, reference sheet, calculator, computer software, etc.)
- ☐ Helping students make decisions about which tools to use and when to use them.

6. Attend to precision.

Look for teachers...

- ☐ Recognizing and modeling efficient strategies for computation.
- ☐ Using (and challenging students to use) mathematics vocabulary precisely and consistently.
- ☐ Routinely exploring math vocabulary.

7. Look for and make use of structure.

Look for teachers...

- ☐ Providing experiences for students to apply and discuss properties.
- ☐ Questioning to prompt students to observe for patterns.
- ☐ Encouraging students to organize data so patterns appear.

8. Look for and express regularity in repeated reasoning.

Look for teachers...

- ☐ Providing investigations that allow students to gather data and determine rules based on their findings.
- ☐ Asking questions to focus students on insights and generalizations.