



## Public School 3

*We fly We soar We achieve*

*Elmer Myers, Principal*

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Dear Parents/Guardians,

I would like to inform you of a Math resource provided by P.S. 3, that grades K-5 will be utilizing this school year. Your child will be engaged with a rich, rigorous Mathematical program called *Exemplars*.

Exemplars publishes hands-on standards-based assessment and instructional material focusing on authentic learning in **Math, Science and Writing**. The material engages students and encourages them to translate what they are thinking. Included within, are also rubrics and anchor papers.

The assessment rubrics provide teachers with a clear set of guidelines to assess student work and reveal areas that need improvement, meet the standards or exceed expectations. Student rubrics provide students with a concrete understanding of the standards that are expected and why. Anchor papers are task specific and identify distinctions to examine when assessing students. These can also be used to promote self- and peer-assessment.

Exemplars open-ended material engages students and helps to develop critical thinking and reasoning skills to solve real-world problems. While every student engages in formative tasks throughout each section, it outlines their progress in Mathematics. In addition, all students will complete one summative task per chapter (counted as a quiz) that will be scored utilizing the rubric on the back of this paper. This rubric assesses students in 5 categories: Problem Solving, Reasoning and Proof, Communication, Connections and Representation.

We believe that if students engage in rigorous mathematical problems on a regular basis, it will deepen their understanding of Mathematics.




















Sincerely,

*Elmer Myers*

Elmer Myers  
Principal

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# Jigsaw Student Rubric

Level	Problem Solving	Reasoning and Proof	Communication	Connections	Representation
<b>Novice</b> Makes an effort. No or little understanding.	I did not understand the problem. 	My math thinking is not correct. 	I used no math language and/or math notation. 	I did not notice anything about the problem or the numbers in my work. 	I did not use a math representation to help solve the problem and explain my work. 
<b>Apprentice</b> Okay, good try. Unclear if student understands.	I understand only part of the problem. My strategy works for part of the problem. 	Some of my math thinking is correct. 	I used some math language and/or math notation. 	I tried to notice something, but it is not about the math in the problem. 	I tried to use a math representation to help solve the problem and explain my work, but it has mistakes in it. 
<b>Practitioner</b> Excellent. Clear. Strong understanding. Meets the standard.	I understand the problem and my strategy works. My answer is correct. 	All of my math thinking is correct. 	I used math language and/or math notation accurately throughout my work. 	I noticed something about my math work. 	I made a math representation to help solve the problem and explain my work, and it is labeled and correct. 
<b>Expert</b> Wow, awesome! Exceptional understanding!	I understand the problem. My answer is correct. I used a rule, and/or verified that my strategy is correct. 	I showed that I knew more about a math idea that I used in my plan. Or, I explained my rule. 	I used a lot of specific math language and/or notation accurately throughout my work. 	I noticed something in my work, and used that to extend my answer and/or I showed how this problem is like another problem. 	I used another math representation to help solve the problem and explain my work in another way. 