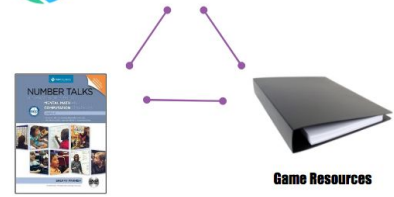


Eugene 4J's Elementary Math

LearnZillion + Number Talks + Games



What's new? Complex tasks, flexible mental math strategies, and collaborative games provide a balanced approach to mathematics. LearnZillion, Number Talks, and game resources have all been adopted as resources for our teachers.

LearnZillion K-5 Digital Math Curriculum

Worthwhile math tasks are presented to build concepts and skills as well as encourage critical thinking and problem-solving. The majority of LearnZillion lessons are crafted to create “productive struggle”. Productive struggle helps build perseverance and supports students to create strong connections from previous knowledge to new concepts. In each unit, students have 2-4 Key Concepts to master. A set of lessons will give students a chance to explore, practice and apply these concepts. Key Concepts ultimately culminate in students applying their knowledge to a real-world situation.

Number Talks

Short, mental math routines build number sense and flexible, efficient strategies. These Number Talk routines leverage patterns, operations, and student dialogue to create lasting meaning rather than rote fact memorization.

Game Resources

According to the National Council of Teachers of Mathematics, playing games encourages strategic math thinking, builds computational fluency, provides practice, and creates home-to-school connections. Students will build positive mathematical community with their peers in a fun and motivating way.



Why is “productive struggle” important?

According to the US Department of Labor, 65 percent of today’s students will be employed in jobs that don’t exist yet. Think about it... Facebook, Amazon, Twitter, and Instagram didn't exist when their current employees were in grade school. Students need to be able to approach problems in unique, collaborative ways. Engaging in productive struggle allows students to be reflective about their problem solving and innovate new ideas.

What will math...?

Sound like	Look like
Students asking questions, making claims, being curious about others work, such as, <ul style="list-style-type: none"> - “I am wondering...” - “Can you explain how your strategy works?” - “Will that always work?” - “How did using that tool help you solve the problem?” - “I agree (or disagree) because...” 	<ul style="list-style-type: none"> - Working in groups on one complex task - Sharing work and connecting ideas - Using tools and pictures to show thinking - Moving around to compare Ideas - Mistakes viewed as valuable learning



Supporting Math at Home
 Visit our Elementary Family and Community Math Resource Page

bit.ly/4jmath