



THE ACADEMY
OF TUCSON

G-TEAMS at Academy of Tucson Elementary

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Who We Are

Sarah is a 4th-grade teacher in her tenth year at Academy of Tucson Elementary.

Katie is third-year PhD student in applied math.



Methods of Collaboration

We incorporate novel mathematical activities and learning strategies into the daily lessons laid out by the Saxon math book in the following ways:

- Exercises at a variety of difficulty levels to entertain a range of abilities
- Group work so that students may support one another in learning
- Worksheets that link our lessons to “real-world” problems
- Activities that require students to write and distribute their own questions about a topic to develop knowledge

Lessons We've Taught Together

Understanding Equivalent Fractions



- What fraction of 1 ft is 10 inches?
- How long is $\frac{1}{2}$ of the ruler in inches?
- How long is $\frac{1}{3}$ of the ruler in inches?
- What is $\frac{1}{2}$ of the ruler + $\frac{1}{3}$ of the ruler in inches?

Students received guided-note worksheets and did additional examples on their own.

Reading & Interpreting Charts

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- What percentage of patients who took Medicine 1 got worse after taking it?
- Which medicine do you think is better? Explain your reasoning.
- What challenges would a scientist face when trying to develop new medicine?

Students thought about how results drive future studies and discussed research ethics.

Student Responses to G-TEAMS

Q: Are you more interested in math now than you were when you started 4th grade?

- “Yes, because I like that we have more experiments in math.”
- “Yes, because before I didn’t know there were so many ways to do math problems.”
- “Yes, because math is in everything and I need to learn and understand it for when I grow up.”
- “I am more interested in math because I never knew I could do so many things with math and I want to learn more.”



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