

Math in Action with Real World Problems

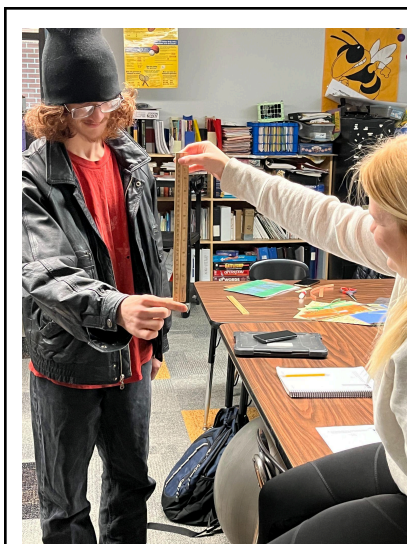
By Lara Staker, Secondary Mathematics Teacher at Fredonia Jr. Sr. High School USD 484

Transition to College Algebra course is quality college-preparation towards mathematics instruction through a book called Transition to College Mathematics out of The University of Texas at Austin, Charles A. Dana Center. We also do lessons on mathematical and growth mindset along with the study of the brain throughout the book.

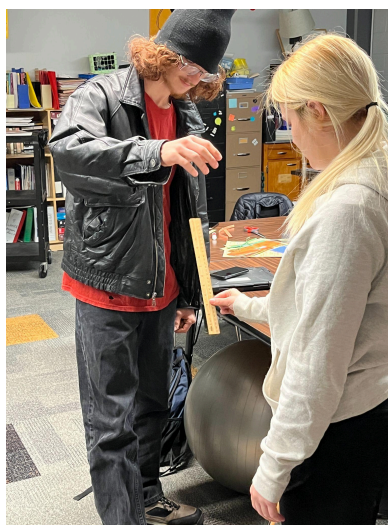
Today my Transition to College Algebra class tested our reaction time by one person dropping a ruler and the other pinches to catch it. One student holds the end of the ruler while the other student ready to pinch the ruler on the bottom. They fill out a table with their trials and get the average. From there, they will be using a formula to calculate their reaction time. The formula

is $t = \sqrt{\frac{d}{16 \frac{ft}{s^2}}}$ or $t = \sqrt{\frac{d}{4.9 \frac{m}{s^2}}}$. You can also adjust this to create a graphing assignment. This is

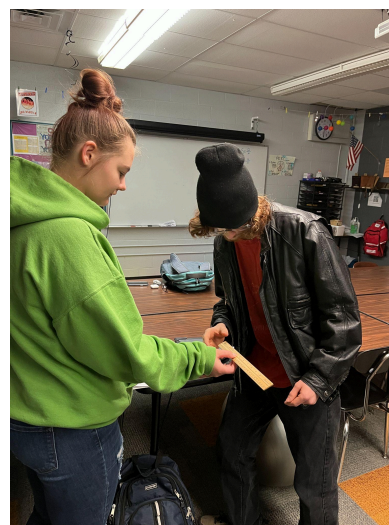
only one of opening task as we look at breaking down different formulas. We also discussed why reaction time can be very important information, like stopping a car, truck, or train. We will also be looking at other distractions like texting, turning around and talking to someone while driving, and even Blood Alcohol Levels.



Andrew Brown and Summer Tarlton



Andrew Brown and Summer Tarlton



Hailey Shaw and Andrew Brown

Since our class is getting ready for college we do activities to help with changing habits and time management. We go to our student-led community-based coffee shop, The Hive, once a week. We get a coffee and do a lesson and work on Agile Mind (the component to the text above).



Hailey and Andrew working in their book and eating some treats.



Summer and Andrew doing a task in the book that required them to find the area 'of the classroom.'

I asked my students what they thought of this class.

- It is our speed and we have time to understand the concepts.
- Beneficial with different learners and working together.
- Problems can start off confusing, but we understand it afterwards.
- This was the first time math made sense to me.