4-12 Mathematics SUMMER Break Activities

Summer Splash Challenge: Volume & Measurement

Grades 4–6: Measure how much water different containers hold and compare volumes.

Grades 7–8: Calculate the rate water fills a bucket or pool toy over time.

Grades 9–12: Use volume formulas to estimate water usage and compare efficiency of different containers.

Park Adventure Challenge: Mapping & Measurement

Grades 4–6: Estimate distances between playground areas or walking paths.

Grades 7–8: Create a simple scale map using measurements from the park.

Grades 9–12: Use coordinate geometry or the distance formula to analyze routes and layouts.

Backyard Shadow Hunt: Angles & Time

Grades 4–6: Measure and compare shadow lengths at different times.

Grades 7–8: Use proportions to estimate the height of objects from their shadows.

Grades 9–12: Explore trigonometry and angles of elevation using sunlight and shadow data.

Varsity Tutors for Schools

Click the image to learn more about the FREE resources available through Varsity Tutor. Tutoring, live classes, challenges, and more..

Make Mathematics Count, GA!

Click for a special series that support parents with understanding the expectations and resources of teaching and learning mathematics in GA