

IWITNESS NEWS: BREAKING INTO GEOMETRY

ASHLEY BAILEY, BEAR CREEK MIDDLE SCHOOL

GRADE LEVEL AND CONTENT: 6th Grade Mathematics

OVERVIEW

In this interactive geometry unit, students work in differentiated groups to master finding the area and volume of two-dimensional and three-dimensional shapes. Throughout the unit, students use technology – including iPads, video conferencing apps, and 3D printers – to identify shapes around the school and practice geometric calculations. The unit concludes with a final project where students diagram, label, and calculate the volume and surface area of their classroom.

STANDARDS ADDRESSED

Mathematics: M.6.G.1.; M.6.G.2.; M.6.G.4.; M.6.EE.2c.; M.6.NS.1.; M.6.NS.2.; M.6.NS.3

AVAILABLE MATERIALS

- Video of Unit
- Daily Lesson Plans
- Prior Knowledge Skills Assessment Quiz
- 2-D Anchor Chart
- Prior Knowledge Skills Warm-Up
- Double Bubble Map Shape Comparison Template
- Perimeter and Area Practice Activity Sheet
- Composite Figure Guide
- 3-D Anchor Chart
- Performance Task Model
- Performance Task Rubric



ABOUT THE TEACHER

Ashley Bailey is currently a 6th grade mathematics teacher at Bear Creek Middle School in Statham, GA. Ms. Bailey received her Bachelor of Science in Middle Grades Education from Piedmont College, Master of Education from Brenau University, and an Education Specialist degree from the University of West Georgia. She serves as a representative on the School Governance Team and a Digital Coach for the county. Her best piece of teaching advice is to try something new, and if it doesn't work, try something else – don't give up on the idea just because it didn't work the first time.