

ENDCAP DESIGN PROJECT CHANDRA BRANDEL, COLEMAN MIDDLE SCHOOL

GRADE LEVEL AND CONTENT: 6th Grade Engineering & Technology, English Language Arts Mathematics, and Visual Arts

OVERVIEW

In this 10-day, integrated unit plan, students learn about rates and ratios. Students first learn how to identify and write ratios, then they learn how to solve equivalent ratios and measurement conversions, and have the opportunity to apply them to a real-world situation. In the latter part of the unit, the class receives a fictional request from a European client in which they must design a store endcap. In the process, they will apply their ratio, rate, and conversion knowledge to design the endcap for the European market.

STANDARDS ADDRESSED

Engineering & Technology: MSENGR-EET-1; MSENGR-EET-4; MSENGR-EET-6

English Language Arts: ELAGSE6RI10; ELAGSE6SL5; ELAGSE6W1; ELAGSE6W6

Mathematics: MGSE6.RP.1; MGSE6.RP.2; MGSE6.RP.3; MGSE6.RP.3a; MGSE6.RP.3b; MGSE6.RP.3d

Visual Arts: VA6PR.1; VA6PR

AVAILABLE MATERIALS

- Video of Unit
- Daily Lesson Plans
- Ratios Slideshow
- Cajun Chili Pepper Caper
- The Mystery of Pirate Ringold's Lost Treasure
- Best Buy Activity Sheet
- Golden Rectangle Activity Sheet
- Foreign Client Letter
- Endcap Design Project Information Sheet
- Endcap Design Project Rubric



ABOUT THE TEACHER

Chandra believes her unique approach to math equips students to succeed in a competitive workforce. After working in banking for most of her professional life, she decided to leave the corporate world and begin teaching. Her corporate experience finds its way into every lesson, though, as she creates realistic projects that provide her students with opportunities to authentically apply math knowledge. Chandra was selected as a semifinalist for the 2018-2019 Gwinnett County Public Schools (GCPS) Teacher of the Year. She is currently teaching at Coleman Middle School and has been teaching at GCPS since 2005.