

# APPLIED MATH

## DIY Measurement - Unit Breakdown

### Lesson 1: Reading a Ruler/Tape Measure

- Resources - graphic showing 1/16ths of an inch & their 4-digit decimal equivalents
  - Flashcards with an inch ruler on one side marked to a given 1/16 & the fraction & decimal answer of that marking on the other
  - 4 Quizizz practice quizzes of 1/16ths in fractions & decimals
- Activity - measure actual objects in the classroom using a ruler or tape measure as appropriate

### Lesson 2: Paint

- Find areas of wall & ceilings by actually measuring rooms with a tape measure
- Research then determine best type of paint finish to use for that area
- Determine how much paint is needed & the most cost effective sizes to buy the paint
- Research supplies needed & their costs to paint the room
- Follow-up: research paint colors, accent colors, paint for trim

### Lesson 3: Carpet

- Find floor area by actually measuring rooms with a tape measure
- Calculate overage to determine estimate of total square footage & square yardage
- Given that carpet comes in 12 foot widths & that pile direction must be consistent, design a layout of carpet for a room that minimizes waste & cost
- Follow-up: research costs at big box stores & independent retailers, types of carpeting, cost for types of carpet padding

### Lesson 4: Mulch

- Find cubic footage using feet & inch measurements then convert cubic feet into cubic yards
- Compare price differences between bagged mulch & buying in bulk by the truckload
- Compare different prices from different mulch suppliers, noting delivery fees & minimum orders
- Use a landscape blueprint & geometric estimations to calculate mulch needed for a yard