

Math 6+: Measurement

Length, Weight, Mass, Capacity, and Angles

Conversion of Units

Students **Learning Continuum Statements:**

Students:

RIT 181-190:

- Completes simple conversions of customary units of length

Students:

RIT 191-200:

- Completes simple conversions of customary units of capacity
- Completes simple conversions of customary units of length
- Completes simple conversions of customary units of weight

Students:

RIT 201-210:

- Completes complex conversions of customary units of length involving fractions, decimals, or more than two units
- Completes simple conversions of customary units of capacity
- Completes simple conversions of customary units of length
- Completes simple conversions of customary units of weight
- Converts units of length between the customary and the metric systems

Students:

RIT 211-220:

- Adds, subtracts, multiplies, or divides multiple units of length
- Completes complex conversions of customary units of capacity involving fractions, decimals, or more than two units
- Completes complex conversions of customary units of length involving fractions, decimals, or more than two units
- Completes conversions of metric units of mass
- Completes simple conversions of customary units of capacity
- Completes simple conversions of customary units of length
- Completes simple conversions of customary units of weight
- Converts units of length between the customary and the metric systems
- Solves multi-step capacity word problems involving whole numbers and conversion of customary units
- Solves multi-step length word problems involving decimals or fractions and conversion of customary units

Students:

RIT 221-230:

- Adds, subtracts, multiplies, or divides multiple units of length
- Completes complex conversions of customary units of capacity involving fractions, decimals, or more than two units

- Completes complex conversions of customary units of length involving fractions, decimals, or more than two units
- Completes complex conversions of customary units of weight involving fractions, decimals, or more than two units
- Completes conversions of metric units of capacity
- Completes conversions of metric units of mass
- Completes simple conversions of customary units of capacity
- Completes simple conversions of customary units of length
- Completes simple conversions of customary units of weight
- Converts units of length between the customary and the metric systems
- Converts units of speed
- Solves multi-step length word problems involving decimals or fractions and conversion of customary units
- Solves multi-step length word problems involving whole numbers and conversion of customary units

Students:

RIT 231-240:

- Adds, subtracts, multiplies, or divides multiple units of capacity
- Adds, subtracts, multiplies, or divides multiple units of length
- Adds, subtracts, multiplies, or divides multiple units of weight or mass
- Completes complex conversions of customary units of capacity involving fractions, decimals, or more than two units
- Completes complex conversions of customary units of length involving fractions, decimals, or more than two units
- Completes complex conversions of customary units of weight involving fractions, decimals, or more than two units
- Completes conversions of metric units of capacity
- Completes conversions of metric units of length
- Completes conversions of metric units of mass
- Converts unit rates to solve real-world problems
- Converts units of length between the customary and the metric systems
- Converts units of speed
- Solves multi-step capacity word problems involving decimals or fractions and conversion of metric units
- Solves multi-step length word problems involving decimals or fractions and conversion of customary units
- Solves multi-step length word problems involving whole numbers and conversion of customary units
- Solves multi-step weight word problems involving whole numbers and conversion of customary units

Students:

RIT 241-250:

- Adds, subtracts, multiplies, or divides multiple units of length
- Applies dimensional analysis to manipulate units in a real-world problem
- Completes conversions of metric units of capacity
- Completes conversions of metric units of length
- Converts unit rates to solve real-world problems
- Converts units of length between the customary and the metric systems
- Converts units of speed

- Solves multi-step capacity word problems involving decimals or fractions and conversion of metric units
- Solves multi-step length word problems involving decimals or fractions and conversion of customary units
- Solves multi-step length word problems involving whole numbers and conversion of customary units
- Solves multi-step mass word problems involving whole numbers and conversion of metric units

Students:

RIT 251-260:

- Applies dimensional analysis to manipulate units in a real-world problem
- Completes conversions of metric units of capacity
- Converts unit rates to solve real-world problems
- Converts units of speed

Students:

RIT 261-270:

- Applies dimensional analysis to manipulate units in a real-world problem

Students:

RIT 271-280:

- Applies dimensional analysis to manipulate units in a real-world problem
- Converts units of area within the same measurement system
- Converts units of volume within the same measurement system