

# Unit 2: Rate, Ratio and Proportional Reasoning Using Equivalent Fractions Standards, Checklist and Concept Map

## Common Core Georgia Performance Standards (CCGPS):

**MCC6.RP.1:** Understand the concept of a ratio and use ratio language to describe a ratio between two quantities. *For example, "The ratio of wings to beaks in the bird house at the zoo was 2:1, because for every 2 wings there was 1 beak." "For every vote Candidate A received, Candidate C received nearly 3 votes."*

**MCC6.RP.2:** Understand the concept of a unit rate  $a/b$  associated with a ratio  $a:b$  with  $b \neq 0$ , and use rate language in the context of a ratio relationship. *For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is  $\frac{3}{4}$  cup of flour for each cup of sugar."*

**MCC6.RP.3b:** Solve unit rate problems including those involving unit pricing and constant speed. *For example, if it took 7 hours to mow 4 lawns, at that rate, how many lawns could be mowed in 35 hours?*

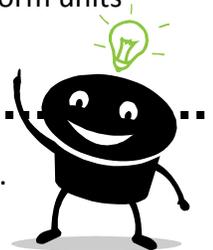
**MCC6.RP.3 :** Use ratio and rate reasoning to solve real-world mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.

**MCC6.RP.3a :** Make tables of equivalent ratios relating quantities with whole-number measurements, find missing values in tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.

**MCC6.RP.3c :** Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.

**MCC6.RP.3d :** Use ratio and rate reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.

**What Will I Need to Learn??** Mark a check next to each concept as you master them.



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| _____ To understand ratios                 | _____ To make tables of equivalent ratios,  |
| _____ To understand unit rates             | find missing values, and plot points in a   |
| _____ To solve unit rate problems          | coordinate plane; compare ratios in a table |
| _____ Solve problems with tables,          | _____ Find percent of a number              |
| tape or number line diagrams, or equations | _____ Find the whole when given part and %  |
| _____ Convert Metric units                 | _____ Convert Customary units               |

**Unit 2 Concept Map:** On the left page, make a concept map of the standards listed above. Underline the verbs and circle the nouns they modify. Then, place those verbs on the connector lines of your concept map, and the nouns in the bubbles of the concept map.

