

GRADE 6

This expanded strand showcases an opportunity for students to hone their writing skills within Standard 3, the Language of Mathematics. Students at all levels of language proficiency are asked to evaluate, a demanding cognitive function, and they must justify their decisions based on computation and reasoning. The example topic of ratio and rate can be made relevant for students using a variety of real-life applications, as shown in the example context for language use. Educators should be mindful of some of the specific and technical language that can be present in such specialized topics as taxes, cars, and sports, and make a point to teach it to

students explicitly. ELLs can be more successful when provided linguistic supports. In levels 1 and 2 of this strand, students are supported by the use of a template. In the row for Linguistic Complexity, students' writing is underlined to show that they have filled in blanks with words, phrases, and simple sentences, while the template provided by their teacher is shown in italicized text. At the higher levels of language proficiency, students can draft all text independently using the support of graphic organizers that remind them of comparative and explanatory language.

ELD STANDARD 3: The Language of Mathematics

EXAMPLE TOPIC: Ratio & rate

CONNECTION: *Common Core State Standards for Mathematics, Ratios and Proportional Relationships #3 (Grade 6):* Use ratio and rate reasoning to solve real-world and mathematical problems... b. Solve unit rate problems including those involving unit pricing and constant speed... c. 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. d. Use ratio reasoning to convert measurement units; manipulate and transform units appropriately when multiplying or dividing quantities.

EXAMPLE CONTEXT FOR LANGUAGE USE: Students justify their decisions in real-life scenarios (e.g., choosing items to buy based on discounts and local tax, determining miles per gallon for different models of cars, or selecting players for a fantasy team based on sports average).

COGNITIVE FUNCTION: Students at all levels of English language proficiency EVALUATE their options and make choices.						
WRITING	Level 1 Entering	Level 2 Emerging	Level 3 Developing	Level 4 Expanding	Level 5 Bridging	Level 6 – Reaching
	List choices based on rate calculations in real-life situations using templates and word banks with a partner	Describe choices based on rate calculations in real-life situations using templates and word banks with a partner	Compare choices based on rate calculations in real-life situations using graphic organizers with a partner	Explain choices based on rate calculations in real-life situations using charts with partners	Elaborate on choices based on rate calculations in real-life situations with partners	
TOPIC-RELATED LANGUAGE: Students at all levels of English language proficiency interact with grade-level words and expressions, such as: sales tax, discount, percentage, ratio, proportion						