

**Elective 7: Reading and Writing in the Science Classroom**

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**Subject:** Algebra 2

**Writing Prompt:** Watch the [STEMonstrations](#) video. Write a paragraph documenting the given information and describing the steps you would take to solve the problem but do not solve the problem.

Once students are complete with the writing assignment, paragraphs are shuffled and distributed randomly to other students. Students are then asked to solve the problem by following the instructions in the paragraph they are given.

**CCSS:**

[CCSS.ELA-LITERACY.W.9-10.2](#)

Write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content.

[CCSS.ELA-LITERACY.W.9-10.2.D](#)

Use precise language and domain-specific vocabulary to manage the complexity of the topic.

[CCSS.ELA-LITERACY.W.9-10.2.E](#)

Establish and maintain a formal style and objective tone while attending to the norms and conventions of the discipline in which they are writing.

[CCSS.ELA-LITERACY.W.9-10.4](#)

Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience. (Grade-specific expectations for writing types are defined in standards 1-3 above.)

[CCSS.MATH.CONTENT.HSG.GMD.A.1](#)

Give an informal argument for the formulas for the circumference of a circle, area of a circle, volume of a cylinder, pyramid, and cone. *Use dissection arguments, Cavalieri's principle, and informal limit arguments.*

[CCSS.MATH.CONTENT.HSF.LE.A.1.B](#)

Recognize situations in which one quantity changes at a constant rate per unit interval relative to another.

[CCSS.MATH.CONTENT.HSF.LE.B.5](#)

Interpret the parameters in a linear or exponential function in terms of a context.

**Justification:**

As both a math and science teacher, I see many opportunities for writing in science. Less opportunities exist in math. However, being able to effectively express thought process and problem solving in writing form is truly important skill. Demonstrating the one's effectiveness

in writing technical directions by having a peer use your own writing an effective way to have students reflect on their own skills and thought processes.