

**Student Exploration: Balancing Act**

(Any answers are indicated below.)

**Scenario:** A quadratic function is written in vertex form. The coefficient of the squared term is  $a$ , the coefficient of the linear term is  $b$ , and the constant term is  $c$ .**What knowledge, questions, or ideas did you bring to the task?**

1. I noticed, given all the variables, I'd probably use graphs. The vertex form tells you the vertex of a parabola. Graphs of parabolas are the graphs of quadratic functions.
2. It requires the vertex form to solve a system of 2 equations. The vertex form will be useful to solve a system of 2 equations of parabolas and a line or a circle.

**Answer questions.**Use an x-axis between  $x = -10$  and  $x = 10$  and a y-axis between  $y = -10$  and  $y = 10$ .**Question 1:** In standard form, the equation of a parabola is  $y = x^2 + 6x + 5$ . Write the vertex form of the equation of the parabola. How do you know? Show your work.**Answer:** I completed the square to get  $y = (x + 3)^2 - 4$ .

$$y = (x + 3)^2 - 4 \quad \text{or} \quad y = x^2 + 6x + 5$$

3. What is the **discriminant** of the equation  $y = x^2 + 6x + 5$ ? Is the discriminant of your equation for the equation? How do you know? Use your knowledge of the discriminant and the vertex form of the equation to answer the question.

$b^2 - 4ac$	$36 - 20$	$16$	$4(4)$
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4. If a **quadratic equation**, the **discriminant** of each graphed parabola is  $b^2 - 4ac$  (or  $(b/2a)^2 - c/a$ ). Write the **discriminant** of the equation  $y = x^2 + 6x + 5$  and explain your work.

<b>Equation:</b>	$y = x^2 + 6x + 5$	<b>Equation:</b>	$y = x^2 + 6x + 5$
<b>Discriminant:</b>	$36 - 20$	<b>Equation:</b>	$y = x^2 + 6x + 5$

Do you have any questions about the question? Yes, the equation is  $y = x^2 + 6x + 5$ .**Question 2:**

$$y = x^2 + 6x + 5 \quad \text{or} \quad y = x^2 + 6x + 5$$

**Question 3:**

$$y = x^2 + 6x + 5 \quad \text{or} \quad y = x^2 + 6x + 5$$

**Answer question 4:**The discriminant of the equation  $y = x^2 + 6x + 5$  is  $b^2 - 4ac$  or  $(b/2a)^2 - c/a$ . The discriminant of the equation  $y = x^2 + 6x + 5$  is  $b^2 - 4ac$  or  $(b/2a)^2 - c/a$ .

# Explore Learning Stoichiometry Answers

**Jin-Ying Zhang**



## Explore Learning Stoichiometry Answers:

**Learn Science, Learn Math, Learn to Teach Science and Math, Homo Sapiens** HEDY MOSCOVICI, Penny J. Gilmer, Katherine C. Wieseman, 2013-02-11 Dr Hedy Moscovici's life on three continents and her battle with ovarian cancer shaped the unique co-learning and participative leadership perspective on science and mathematics education shared in this book. This text has multiple audiences: prospective and practicing teachers wanting to motivate their students to learn science and mathematics; educators mentoring teachers to become transformative intellectuals and critical pedagogues; parents interested in their children's advancement; and interested policymakers and the public wishing to deepen their understanding about learning in general and educational issues in science and mathematics. Two mottos: "I can't learn from you if you can't learn from me" and "to teach is to learn twice" summarize the essence of her message. The spotlight is on the critical interdependence of factors: specifically human ability to construct understanding; necessity of disequilibrium to spark neural rewiring; cognition, emotion, pleasure vs. pain; even science or math phobia; connections; sociocultural context; dilemma created by the absence of a clearly trustworthy learning meter for a society valuing objective measurement of quality of learning; human relationships sustained by three R's: rights, responsibilities, respect; and heightened awareness of power relationships leading to a spirit of collaboration; recognition of each individual's strengths and expertise; and critical pedagogy. Space Research, 2003 ENC Focus, *Innovative Curriculum Materials*, 1999 Chemistry Education Javier García-Martínez, Elena Serrano-Torregrosa, 2015-02-23 Winner of the CHOICE Outstanding Academic Title 2017 Award. This comprehensive collection of top-level contributions provides a thorough review of the vibrant field of chemistry education. Highly experienced chemistry professors and education experts cover the latest developments in chemistry learning and teaching, as well as the pivotal role of chemistry for shaping a more sustainable future. Adopting a practice-oriented approach, the current challenges and opportunities posed by chemistry education are critically discussed, highlighting the pitfalls that can occur in teaching chemistry and how to circumvent them. The main topics discussed include best practices, project-based education, blended learning, and the role of technology, including e-learning and science visualization. Hands-on recommendations on how to optimally implement innovative strategies of teaching chemistry at university and high school levels make this book an essential resource for anybody interested in either teaching or learning chemistry more effectively, from experienced chemistry professors to secondary school teachers, from educators with no formal training in didactics to frustrated chemistry students. **Prentice Hall Chemistry**, 2000 U-M Computing News, 1990 **The Software Encyclopedia 2001**, 2001 *Teaching Science Online* Dietmar Kennepohl, 2023-07-03 With the increasing focus on science education, growing attention is being paid to how science is taught. Educators in science and science-related disciplines are recognizing that distance delivery opens up new opportunities for delivering information, providing interactivity, collaborative opportunities, and feedback, as well as for increasing access for students. This book presents the guidance of expert science

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