

INTERDISCIPLINARY LITERACY PRACTICES

GRADE 6
MATHEMATICS

In Action

High-Quality Instructional Resource:



Kentucky Academic Standards for Mathematics:

KY.6.EE.5 Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.

KY.6.EE.6 Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or depending on the purpose at hand, any number in a specified set.

KY.6.EE.7 Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $x = q$ for cases in which p , q and x are all nonnegative rational numbers.

Interdisciplinary Literacy Practices Featured in This Video:

- ILP 1** Recognize that text is anything that communicates a message.
- ILP 3** View literacy experiences as transactional, interdisciplinary and transformational.
- ILP 4** Utilize receptive and expressive language arts to better understand self, others and the world.
- ILP 5** Apply strategic practices, with scaffolding and then independently, to approach new literacy tasks.
- ILP 6** Collaborate with others to create new meaning.
- ILP 8** Engage in specialized, discipline-specific literacy practices.
- ILP 9** Apply high level cognitive processes to think deeply and critically about text.

Lesson Opening:

Notice and Wonder using an image of a lap pool. Then, activate schema on mathematical and contextual terms, *equation, variable and swimming laps*.

Lesson Procedures:

- Analyze a problem involving swimming laps as a fundraiser.
- Identify important information from the text and explain its importance.
- Create a visual representation of the problem situation.
- Generate an algebraic equation and progress toward solving it.

Lesson Closing:

Reflection: Which mathematical representation were you most successful working in, and which was most challenging?



Kentucky Department of
EDUCATION