## $6^{\text {TH }}$ GRADE MATH NEWSLETTER

## Our Unit 4 Math Concepts

* Use variables to represent two quantities that change in relationship to one another in a real world problem and write an equation to express one quantity, thought of as the dependent variable, in terms of another quantity, thought of as the independent variable.
* Analyze the relationship between the dependent and independent variables in an equation using graphs and tables. For example, in a problem involving motion at constant speed, list and graph ordered pairs of distances and times, and write the equation $d=65 t$ to represent the relationship between distance and time.


##  <br> Equations and Inequalities

So far this year, 6th grade students have been working with variables to simplify algebraic expressions. We are now venturing into the world of equations and inequalities! We need to remember to be very deliberate and precise with our vocabulary in math, but especially careful in this unit. Some short definitions are provided to the right, and video lessons below.

Video Lessons:

- Solving One-Step Equations with Substitution (online pan balance)
- Solving One-Step Equations using the Inverse Operation
- Writing Algebraic Expressions
- Write and Solve Equations
- Write and Graph Inequalities and a second video
- Dependent and Independent Variables

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[^0]:    Vocabulary
    > An expression is a combination of values (and) operation symbols (NO equal sign!). Ex: $2 x^{4}+4 x$
    , An equation has two expressions separated by an equal sign (HAS an equal sign!).

    Ex: $3 x+7=16$
    > An inequality has two expressions separated by an inequality sign.

    Ex: $4+x>25$
    , The value of a dependent variable depends on the independent variable.

    Ex: $A=\pi r^{2}$ (area is dependent on radius)
    > An independent variable may have it's values chosen without consideration of other values.

    ## 6th Grade Tech Links https://www.edmodo.com/ <br> https://www.khanacademy.org/ <br> https://www.pearsonrealize.com/\#/

