



Math Virtual Learning

# College Prep Algebra

April 23, 2020



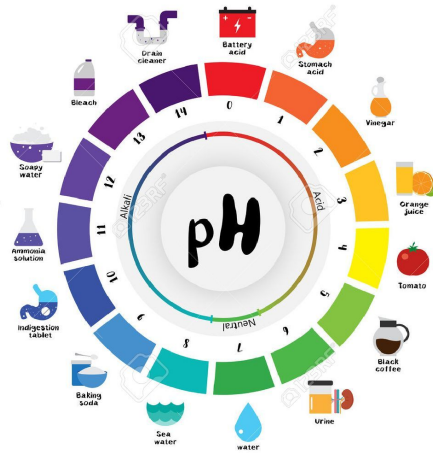
College Prep Algebra  
Lesson: April 23, 2020

**Objective/Learning Target:**  
How to use logarithms to solve  
exponential formula problems.

# Let's Get Started:

Exponential decay and growth are all around you and often we are more concerned about reaching a specific goal modeled by the exponential.

At the end of this lesson, you should be able to figure out the meaning of these pictures.



**Lesson:**

**To apply exponentials, you must have formulas.**

**The formulas will be given to you on the practice problems.**

**The one thing about formulas is to remember you must have data for all the variables, except for one!**

**So if the formula has 7 variables, the problem must give you values for six of the seven variables!**

**Remember the inverse of an exponential is a logarithm.**

Practice: Use the calculator linked here.  
[Scientific Calculator](#)

[Using Logarithms to solve  
Exponential Formulas  
with Answers](#)

## **Additional Practice**

**It is difficult to find applications like you just practiced, so here is a worksheet to practice basic exponential equations.**

[Practice solving exponentials with logarithms  
with answers](#)

[Worked out solutions to the above worksheet](#)