

# GRADE 7 – MATHEMATICS

## K-HIGH MATH

K Channel's home-grown "K High," follows the adventures of high school friends as they experience, discover, learn and use in their daily lives relevant concepts in Mathematics. The episodes are good resource materials for the study of High School Math.

**Medium: Filipino and English**

## K-HIGH MATH 3

**Learning Competency: The Real Number System**

**Math Component: Set Concepts, Set Operations, Venn Diagram, and Problems Involving Sets**

### SETS

This episode focuses on Exploring Set Concepts, Set Operations, Venn Diagram, and Problems Involving Sets.

Jun 8 (Thu) 10:40am - 11:00am

3:20pm - 3:40pm

Jun 15 (Thu) 10:40am - 11:00am

3:20pm - 3:40pm

## K-HIGH MATH

**Learning Competency: The Real Number System**

**Math Component: Operations on Integers (addition, subtraction, multiplication, division)**

## **RECORDER**

This episode focuses on Exploring Set Concepts, Set Operations, Venn Diagram, and Problems Involving Sets.

Jun 22 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

## **K-HIGH MATH**

**Learning Competency: The Real Number System**

**Math Component: Conversion (Decimal, Percentage, Fraction)**

## **TABLET**

This episode teaches the viewers to correct some wrong saving practices through conversion of values (decimal, percentage, fraction). Here, we used weight, volume, and time to further explain the concept of conversion.

Jun 29 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

## **K-HIGH MATH**

**Learning Competency: The Real Number System**

**Math Component: Properties of Real Numbers**

## **FISH PORT**

This episode discusses how applying the properties of real numbers (commutative, identity, inverse, associative, distributive) in real life situations can be helpful in sustaining harmonious relationships among people.

Jul 6 (Thu)            10:40am - 11:00am  
                              3:20pm - 3:40pm

### **K-HIGH MATH**

**Learning Competency: Algebraic Expressions**

**Math Component: Scientific Notation**

### **SUPERHEROES**

This episode explains how large values or quantities are expressed in scientific notation and the rules that must be followed in the process. Knowledge in scientific notation is applied in discussing the problem of overpopulation and its effects to people and society.

Jul 13 (Thu)            10:40am - 11:00am  
                              3:20pm - 3:40pm

### **K-HIGH MATH**

**Learning Competency: Measurement**

**Math Component: Measurement and Conversion**

### **ROAD TRIP**

This episode features the process of conversion of different units of measurement such as mass, density, volume, weight, length and time. It also

explains how conversion and the use of measuring devices can be helpful in solving real life problems.

Jul 20 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

### **K-HIGH MATH**

**Learning Competency: Algebraic Expressions**

**Math Component: Mathematical Expressions**

### **BISIKLETA**

This episode demonstrates how verbal phrases are translated to mathematical expressions and vice versa. It aims to help students solve problems and perform mathematical operations using both numbers and words. How this skill is used in dealing with the problem of drop-outs in schools is discussed in the episode.

Jul 27 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

### **K-HIGH MATH**

**Learning Competency: Rational Algebraic Expressions**

### **BRAIN DRAIN**

This episode discusses the meaning of rational algebraic expression and its similarities with rational numbers. It explains how restricted value/s and domain

of a given rational algebraic expressions are determined. It also shows the effects of “brain drain” to the quality of services delivered to people.

Aug 3 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

## **K-HIGH MATH**

### **Learning Competency: Simplifying Rational Algebraic Expressions**

#### **TIME MANAGEMENT**

This episode highlights simplifying rational algebraic expressions by factoring numerators and denominators completely and cancelling out common factors. Two methods of simplifying rational expressions (dividing by GCF and prime factorization) are presented in this episode. As an application, the topic is connected to proper time management as a strategy to efficiently carry out tasks.

Aug 10 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

## **K-HIGH MATH**

### **Learning Competency: Algebraic Expressions**

#### **Math Component: Polynomial**

## **SPORTS FEST**

This episode features the basic concepts in algebra, namely, polynomials, constants, variables and algebraic expressions. The difference between a polynomial and an algebraic expression is given focus, as well as the parts of a term in an algebraic expression (i.e. literal and numerical coefficients). How these concepts are used in discussing fair implementation of laws is also be shown in this episode.

Aug 17 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

## **K-HIGH 2**

### **Learning Competency: Evaluating Algebraic Expressions**

#### **MANONG DRIVER**

After watching the episode, students are expected to define Algebraic Expressions, understand the concept of substituting numerical values to evaluate Algebraic Expressions, and be able to perform addition and subtraction of monomials.

Aug 24 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

## **K-HIGH 2**

### **Learning Competency: Multiplication and Division of Monomials**

#### **PASAHERO**

The episode teaches multiplication of monomials using the laws of exponents, and relating the concepts of multiplication and division of monomials using laws of exponents to real life situations.

Aug 31 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

### **K-HIGH MATH**

**Learning Competency: Algebraic Expressions**

**Math Component: Scientific Notation**

### **PAROLA**

This episode focuses on the properties of equality and inequality. An application of the lessons is used as the issue of unemployment and its bad effects are tackled.

Sep 7 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

### **K-HIGH MATH 3**

**Learning Competency: The Real Number System**

**Math Component: Set Concepts, Set Operations, Venn Diagram, and Problems Involving Sets**

### **SETS**

This episode focuses on Exploring Set Concepts, Set Operations, Venn Diagram, and Problems Involving Sets

Sep 14 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

### **K-HIGH MATH**

**Learning Competency: The Real Number System**

**Math Component: Operations on Integers (addition, subtraction, multiplication, division)**

### **RECORDER**

This episode focuses on Exploring Set Concepts, Set Operations, Venn Diagram, and Problems Involving Sets

Sep 21 (Thu)      10:40am - 11:00am  
                         3:20pm - 3:40pm

### **K-HIGH MATH**

**Learning Competency: The Real Number System**

**Math Component: Conversion (Decimal, Percentage, Fraction)**

### **TABLET**

This episode teaches the viewers to correct some wrong saving practices through conversion of values (decimal, percentage, fraction). Here, we used weight, volume, and time to further explain the concept of conversion.



Sep 28 (Thu) 10:40am - 11:00am  
3:20pm - 3:40pm

## **K-HIGH MATH**

**Learning Competency: The Real Number System**

**Math Component: Properties of Real Numbers**

## **FISH PORT**

This episode discusses how applying the properties of real numbers (commutative, identity, inverse, associative, distributive) in real life situations can be helpful in sustaining harmonious relationships among people.

Oct 5 (Thu) 10:40am - 11:00am  
3:20pm - 3:40pm

## **K-HIGH MATH**

**Learning Competency: Algebraic Expressions**

**Math Component: Scientific Notation**

## **SUPERHEROES**

This episode explains how large values or quantities are expressed in scientific notation and the rules that must be followed in the process. Knowledge in scientific notation is applied in discussing the problem of overpopulation and its effects to people and society.

Oct 12 (Thu) 10:40am - 11:00am  
3:20pm - 3:40pm

Oct 19 (Thu) 10:40am - 11:00am  
3:20pm - 3:40pm

## **K-HIGH 2**

### **Learning Competency: Evaluating Algebraic Expressions**

#### **MANONG DRIVER**

After watching the episode, students are expected to define Algebraic Expressions, understand the concept of substituting numerical values to evaluate Algebraic Expressions, and be able to perform addition and subtraction of monomials.

Oct 26 (Thu) 10:40am - 11:00am  
3:20pm - 3:40pm

Nov 2 (Thu) 10:40am - 11:00am  
3:20pm - 3:40pm