

# SCIENCE – Grade 7

## **K-HIGH SCIENCE**

Knowledge Channel’s first home grown animated program, “K-High” follows the adventures of five high school friends, Archie, Aga, Karlo, and Aya of Karunungan High School as they experience, discover, learn, and use relevant science concepts in their daily lives.

## **K-HUB**

K Hub puts on-air Filipino expert teachers as main facilitators of learning important science concepts. Majority of the episodes have the former Philippine Science High School Executive Director and internationally- acclaimed mentor Dr. Josette Biyo as the expert teacher.

## **AGHAM ARALIN**

The narrative on the Sun, Earth and Moon is an installment to the drama series that talks about how all of nature’s elements are inter-related and how these different relationships affect all life and non-life forms.

## **MARINE BIODIVERSITY**

Marine Biodiversity covers the basic concepts of the food web, the goods and services that marine biodiversity provides to man, and the ways in which man can preserve the diversity without sacrificing the latter’s economic worth.

## **PUNO NG BUHAY**

The show is a magazine on the environment, specifically on forests and forest conservation. It aims to create awareness and understanding of the importance of, and of conserving the Philippine tropical forests.

**Medium: Filipino**

## **K-HIGH SCIENCE**

**Learning Competency: Speed, Velocity and Acceleration**

### **SPEED, VELOCITY AND ACCELERATION (BISIKLETA)**

*This episode discusses the relationship of speed, velocity and acceleration. How these concepts are seen in our daily activities is briefly explained.*

Oct 31(Mon)	10:40am 11:00a
Nov 4(Fri)	3:00pm – 3:20pm
Nov 7(Mon)	10:40am 11:00am
Nov 11(Fri)	3:00pm –3:20pm

## **SINESKWELA 4 Learning Competency: Sun-MoonEarth (Tides)**

### **TIDES (“ANO ANG TIDES?”)**

*This Sine’skwela episode, although meant for Elementary, may also be used as a supplementary material for Grade 7 science. It discusses the Law of Gravitational Attraction and the reasons behind the rising and ebbing of the tide. Berto discovers that the island where he buried his treasure has disappeared. He seeks the help of the Sineskwela team to recover the treasure.*

Nov 14(Mon)	10:40am 11:00am
Nov 18(Fri)	3:00pm – 3:20pm
Nov 21(Mon)	10:40am 11:00am
Nov 25(Fri)	3:00pm – 3:20pm

## **CONSTEL-SCIENCE MADE EASY**

### **Learning Competency: SOUNDS AROUND US**

*This episode explains how the ears process the sound from the moment it enters and until the brain interprets and identifies it.*

Nov 1(Mon)	10:40am 11:00am
Dec 2(Fri)	3:00pm –3:20pm
Dec 5(Mon)	10:40am 11:00am
Dec 9(Fri)	3:00pm –3:20pm

## **K-HIGH SCIENCE**

### **Learning Competency: Conservation of Energy**

#### **CONSERVATION OF ENERGY (SUPERHEROES)**

*This episode focuses on the sources of energy that Mother Nature provided us. It explains the flow of energy from its sources down to different facilities and devices. It further explains how these energy sources affect the growth of population and urbanization of a particular community.*

Dec 12Mon)	10:40am 11:00am
Dec 16(Fri)	3:00pm –3:20pm
Dec 19(Mon)	10:40am - 11:00am
Dec 23(Fri)	3:00pm –3:20pm

## **K-HIGH SCIENCE**

### **Learning Competency: Conservation of Energy**

#### **TRANSFORMATION OF ENERGY (PAROLA)**

*This episode features the conservation and transformation of energy into different forms such as heat, sound and electricity. Given as examples are the flow of energy to the appliances and devices we use at home. It also discusses the issue of unemployment, and how these unemployed can be part of the efforts to save and use energy wisely.*

Jan 2(Mon)	10:40am - 11:00am
Jan 6(Fri)	3:00pm – 3:20pm
Jan 9(Mon)	10:40am 11:00am
Jan 13(Fri)	3:00pm –3:20pm

## **SINESKWELA 5**

### **Learning Competency: Energy – Transformation of Electrical Energy ELECTRICAL ENERGY**

*This episode explains the principles of electricity and its sources, how batteries and generators transform other forms of energy into electrical energy, and how a circuit works.*

Jan 16(Mon) 10:40am - 11:00am

Jan 20(Fri) 3:00pm –3:20pm

## **SINESKWELA 5**

### **Learning Competency: Energy – Transformation of Electrical Energy**

#### **TRANSFORMATION OF ELECTRICAL ENERGY (“SI ELEKTRA AT KALYE KURYENTE”)**

*This episode shows how electrical energy can be changed into other forms such as mechanical, elastic and kinetic energies. It shows their usefulness in daily life such as in the windmill, water wheel, and solar heater.*

Jan 23(Mon) 10:40am 11:00am

Jan 27(Fri) 3:00pm –3:20pm

## **PUNO NG BUHAY 2**

### **Learning Competency: The Philippine Environment**

#### **FORESTS AND THE PHILIPPINE ARCHIPELAGO**

*This episode demonstrates how places on Earth may be located using a coordinate system. It also tackles the location of the Philippines with respect to the continents and oceans of the world.*

Jan 30(Mon) 10:40am 11:00am

Feb 3(Fri) 3:00pm –3:20pm

Feb 6(Mon) 10:40am 11:00am

Feb 10(Fri) 3:00pm –3:20pm

## **PUNO NG BUHAY 2**

### **Learning Competency: The Philippine Environment**

#### **BIODIVERSITY IN THE PHILIPPINE FORESTS**

*This episode talks about the Biodiversity in the Philippine Forests. It also tackles different Earth materials that people use as resources.*

Feb 13(Mon) 10:40am 11:00am

Feb 17(Fri) 3:00pm – 3:20pm

Feb 20(Mon) 10:40am 11:00am

Feb 24(Fri) 3:00pm – 3:20pm

## **PUNO NG BUHAY 2**

### **Learning Competency: The Philippine Environment**

## **INTERACTIONS IN FORESTS**

*This episode talks about the different Interactions in the Ecosystems. It also talks about the relation of geographical location of the Philippines to its environment.*

Feb 27(Mon)            10:40am 11:00am  
Mar 3(Fri)             3:00pm –3:20pm

## **PUNO NG BUHAY 2**

**Learning Competency: Interactions in the Atmosphere**

### **CLIMATE AND FORESTS**

*This episode talks about how some human activities affect the atmosphere. It also tackles the account for the occurrence of land and sea breezes how, monsoons and intertropical convergence zone. Disaster Risk Reduction Management is also part of the episode.*

Mar 6(Mon)            10:40am 11:00am  
Mar 10(Fri)            3:00pm – 3:20pm

## **AGHAM ARALIN**

**Learning Competency: Sun-MoonEarth (Phases of the moon)**

### **SUN, MOON, EATH (ORGANIZATION OF CELESTIAL BODIES)**

*The episode demonstrates the orbit of the Moon and Earth around the Sun. It also models the phases of the Moon and eclipses due to the positions of Earth, Moon and Sun.*

Mar 13(Mon)           10:40am 11:00am  
Mar 17(Fri)            3:00pm – 3:20pm

## **MARINE BIODIVERSITY**

**Learning Competency: Basics of Ecology**

### **BASICS OF ECOLOGY (MI ISLA VERDE)**

*The episode illustrates how living things depend on other living things in order to survive, and how living things interact with the non-living components of an ecosystem. It also describes distinguishing characteristics of different groups of organisms.*

Mar 20(Mon)           10:40am 11:00am  
Mar 24(Fri)            3:00pm – 3:20pm

## **MARINE BIODIVERSITY**

**Learning Competency: Functions of Ecosystem**

### **FUNCTIONS OF ECOSYSTEM (THE GOOD IN DIVERSITY)**

*This episode presents some benefits of a healthy marine biodiversity to the community. It also shows how some human activities lead to its destruction.*

Mar 27(Mon)           10:40am 11:00am  
Mar 31(Fri)            3:00pm – 3:20pm  
Apr 3(Mon)            10:40am 11:00a  
Apr 7(Fri)             3:00pm – 3:20pm