

# SCIENCE – GRADE 9

## **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 forests, and of conserving Philippine tropical forests.

## **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.

## **CONSTEL: SCIENCE MADE EASY**

The program aims to enhance the student's competence and confidence in learning Science. Expository presentations, laboratory demonstrations, and application of concepts and principles are used as the show's framework. The episodes are good resource materials for the study of Science for Grade 9.

**Medium: Filipino or English**

## **CONSTEL: Science Made Easy Learning Competency: Earth – Volcanoes**

### **TAAL VOLCANO**

*This episode explores Taal Volcano, one of the smallest volcanoes in the world. It is located in the middle of Taal Lake in Batangas.*

Nov 1(Tue)	3:00pm - 3:20pm
Nov 2(Wed)	10:40am - 11:00pm
Nov 8(Tue)	3:00pm - 3:20pm
Nov 9(Wed)	10:40am - 11:00pm

## **Puno ng Buhay**

### **Learning Competency: Climate Change**

#### **CLIMATE CHANGE**

*This episode explains the Impact of humans on the ecosystem, specifically their contributions to pollution, climate change and global warming. It talks of ways on how to prevent such occurrences.*

Nov 15(Tue)	3:00pm - 3:20pm
Nov 16(Wed)	10:40am - 11:00pm
Nov 22(Tue)	3:00pm - 3:20pm
Nov 23(Wed)	10:40am - 11:00pm

## **Puno ng Buhay**

### **Learning Competency: Mangroves and Forests**

#### **MANGROVES AND FORESTS**

*This episode focuses on the ecosystem being self-regulating and self-perpetuating, and its carrying capacity, maximum sustainable yields, waste assimilative capacity, and natural enemies. It also covers mangroves and their importance to the ecosystem.*

Nov 29(Tue)	3:00pm - 3:20pm
Nov 30(Wed)	10:40am - 11:00pm
Dec 6(Tue)	3:00pm - 3:20pm
Dec 7(Wed)	10:40am - 11:00pm

## **Sine'skwela 6**

### **Learning Competency: Beyond the Solar System – Characteristics of Stars**

#### **STARS AND CONSTELLATIONS**

*This episode discusses the composition of a star, while explaining the colors and the sizes of stars. Students will also learn how to measure the altitude of stars through the use of an astrolabe.*

Dec 13(Tue)	3:00pm - 3:20pm
Dec 14(Wed)	10:40am - 11:00pm
Dec 20(Tue)	3:00pm - 3:20pm
Dec 21(Wed)	10:40am - 11:00pm

## **K High Science**

### **Learning Competency: Energy Sources**

#### **ENERGY SOURCES**

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

Jan 3(Tue)	3:00pm - 3:20pm
Jan 4(Wed)	10:40am - 11:00pm
Jan 10(Tue)	3:00pm - 3:20pm
Jan 11(Wed)	10:40am - 11:00pm

## **K High Science**

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

#### **CONSERVATION OF ENERGY**

*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 in the equipment or appliances we use at home. It will also discuss the issue of unemployment and how the unemployed can be part of the efforts to save and use energy wisely.*

Jan 17(Tue)	3:00pm - 3:20pm
Jan 18(Wed)	10:40am - 11:00pm
Jan 24(Tue)	3:00pm - 3:20pm
Jan 25(Wed)	10:40am - 11:00pm

**CONSTEL: Chemistry in Action**

**Learning Competency: Force, Work and Power**

**FORCES AND FLUIDS**

*The episode discusses forces and fluids.*

Jan 31(Tue)	3:00pm - 3:20pm
Feb 1(Wed)	10:40am - 11:00pm
Feb 7(Tue)	3:00pm - 3:20pm
Feb 8(Wed)	10:40am - 11:00pm

**CONSTEL: Science Made Easy**

**Learning Competency: Energy – Static Electricity**

**ELECTRICITY**

*This episode discusses the motion of an atomic particle called electron. Discover the science concepts behind that form of energy which provides us with conveniences and comforts in our daily lives. This is called electrical energy.*

Feb 14(Tue)	3:00pm - 3:20pm
Feb 15(Wed)	10:40am - 11:00pm
Feb 21(Tue)	3:00pm - 3:20pm
Feb 22(Wed)	10:40am - 11:00pm

**CONSTEL: Science Made Easy Learning Competency: Energy – Static Electricity**

**PRACTICAL ELECTRICITY**

*This episode teaches concepts in electrical energy and ways in saving electrical energy.*

Feb 28(Tue)	3:00pm - 3:20pm
Mar 1(Wed)	10:40am - 11:00pm
Mar 7(Tue)	3:00pm - 3:20pm
Mar 8(Wed)	10:40am - 11:00pm

**CONSTEL: Science Made Easy**

**Learning Competency: Energy – Static Electricity**

**ELECTRICITY HAZARDS AND SAFETY**

*This episode talks about electrical hazards and safety. Electricity brings countless benefits into our lives but it can also bring damages if we don't know how to use it properly.*

Mar 14(Tue)	3:00pm - 3:20pm
Mar 15(Wed)	10:40am - 11:00pm
Mar 21(Tue)	3:00pm - 3:20pm

Mar 22(Wed) 10:40am - 11:00pm

**CONSTEL: Science Made Easy**

**Learning Competency: Energy – Electromagnets**

**CURRENT FROM MAGNETS**

*This episode focuses on the current of magnets. Experiments and activities were done to demonstrate how magnets produce current. It will be observed that there are three factors which affect the amount of induced current in a conductor and these are velocity, strength of the magnetic field, and the number of loops of wire.*

Mar 28(Tue) 3:00pm - 3:20pm

Mar 29(Wed) 10:40am - 11:00pm

Apr 4(Tue) 3:00pm - 3:20pm

Apr 5(Wed) 10:40am - 11:00pm