

SCIENCE – GRADE 8

K-HUB

Philippine Science High School Executive Director, internationally recognized science teacher, and multi-awarded educator who has a planet in the Solar System in her name, Dr. Josette T. Biyo facilitates “on-air” science sessions with her students, Alfozo, Ashley, and Lorenzo. In each episode, both the student and the teacher learn. The former learns relevant curriculum competencies, while the latter learns approaches to better facilitate science learning. In the episodes, Dr. Biyo conducts her so called “classes” anytime and anywhere.

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.

Medium: Filipino

K-HIGH SCIENCE

Learning Competency: Elements and Compounds TABLET

This episode teaches the viewers to correct some of the wrong practices with regards to saving. It also features the different elements and compounds found in ordinary households which an ordinary student may not be aware of. This episode explains how these elements and compounds can be put to good use.

Oct 31(Mon)	3:00pm - 3:20pm
Nov 1(Tue)	10:40am - 11:00am
Nov 7(Mon)	3:00pm - 3:20pm
Nov 8(Tue)	10:40am - 11:00am

K-HIGH SCIENCE

Learning Competency: Characteristics of elements (metals and non-metals) and the Periodic Table RECORDER

This episode focuses on how the characteristics of elements are seen in ordinary objects around us; proving that learning is not limited to classroom discussions and activities alone. An easier way to look for elements in the periodic table is also revealed in this episode.

Nov 2(Wed)	3:00pm - 3:20pm
Nov 3(Thu)	10:40am - 11:00am
Nov 9(Wed)	3:00pm - 3:20pm
Nov 10(Thu)	10:40am - 11:00am
Nov 14(Mon)	3:00pm - 3:20pm

Nov 15(Tue) 10:40am - 11:00am

CONSTEL Learning Competency: THE PERIODIC TABLE OF ELEMENTS THE PERIODIC TABLE OF ELEMENTS

This episode discusses how elements are organized in the periodic table and how they are related to their electronic configuration and chemical properties.

Nov 16(Wed) 3:00pm - 3:20pm

Nov 17(Thu) 10:40am - 11:00am

Nov 21(Mon) 3:00pm - 3:20pm

Nov 22(Tue) 10:40am - 11:00am

Nov 28(Mon) 3:00pm - 3:20pm

Nov 29(Tue) 10:40am - 11:00am

CONSTEL

Learning Competency: PERIODIC PROPERTIES OF ELEMENTS PERIODIC PROPERTIES OF ELEMENTS

This episode discusses how elements are organized in the periodic table and how they are related to their electronic configuration and chemical properties.

Nov 23(Wed) 3:00pm - 3:20pm

Nov 24(Thu) 10:40am - 11:00am

Nov 30(Wed) 3:00pm - 3:20pm

Dec 1(Thu) 10:40am - 11:00am

Dec 5(Mon) 3:00pm - 3:20pm

Dec 6(Tue) 10:40am - 11:00am

K-HUB

Learning Competency: DIGESTIVE AND ENDOCRINE SYSTEM DIGESTIVE AND ENDOCRINE SYSTEM

In this episode, students should be able to understand the digestive system and the processes of breaking down of food and absorption of nutrients. The episode also talks about the Endocrine Glands and its hormones.

Dec 7(Wed) 3:00pm - 3:20pm

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

Dec 12(Mon) 3:00pm - 3:20pm

Dec 13(Tue) 10:40am - 11:00am

Dec 19(Mon) 3:00pm - 3:20pm

Dec 20(Tue) 10:40am - 11:00am

K-HUB Learning Competency: RESPIRATORY AND EXCRETORY SYSTEM RESPIRATORY AND EXCRETORY SYSTEM

In this episode, students are expected to understand the structure of the respiratory system as well as the mechanism and control of breathing. It also talks about the structures of the Urinary System and Kidney Functions.

Dec 14(Wed)	3:00pm - 3:20pm
Dec 15(Thu)	10:40am - 11:00am
Dec 21(Wed)	3:00pm - 3:20pm
Dec 22(Thu)	10:40am - 11:00am
Jan 2(Mon)	3:00pm - 3:20pm
Jan 3(Tue)	10:40am - 11:00am
Jan 9(Mon)	3:00pm - 3:20pm
Jan 10(Tue)	10:40am - 11:00am

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Learning Competency: Cell Division CELL DIVISION, PART 1

This episode explains the process of cell division. It involves reproduction, growth, and repair of cells. It talks discusses Mitosis and Meiosis. Mitosis is the process by which new cells are generated while meiosis is the process by which gametes are generated for reproduction.

Jan 4(Wed)	3:00pm - 3:20pm
Jan 5(Thu)	10:40am - 11:00am
Jan 11(Wed)	3:00pm - 3:20pm
Jan 12(Thu)	10:40am - 11:00am
Jan 16(Mon)	3:00pm - 3:20pm
Jan 17(Tue)	10:40am - 11:00am
Jan 23(Mon)	3:00pm - 3:20pm
Jan 24(Tue)	10:40am - 11:00am

K-HUB Learning Competency: Cell Division CELL DIVISION, PART 2

This episode explains the process of cell division. It involves reproduction, growth, and repair of cells. It talks discusses Mitosis and Meiosis. Mitosis is the process by which new cells are generated while meiosis is the process by which gametes are generated for reproduction.

Jan 18(Wed)	3:00pm - 3:20pm
Jan 19(Thu)	10:40am - 11:00am
Jan 25(Wed)	3:00pm - 3:20pm
Jan 26(Thu)	10:40am - 11:00am
Jan 30(Mon)	3:00pm - 3:20pm
Jan 31(Tue)	10:40am - 11:00am
Feb 6(Mon)	3:00pm - 3:20pm
Feb 7(Tue)	10:40am - 11:00am

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Learning Competency: Genetics GREGOR MENDEL AND THE SCIENCE OF GENETICS

This episode focuses on the Science of Genetics, and the roles of chromosomes and genes in hereditary variations. It also explains the chromosomal basis of genetic inheritance and the role of DNA as the blueprint of life.

Feb 1(Wed)	3:00pm - 3:20pm
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Feb 8(Wed)	3:00pm - 3:20pm
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Feb 13(Mon)	3:00pm - 3:20pm
Feb 14(Tue)	10:40am - 11:00am
Feb 20(Mon)	3:00pm - 3:20pm
Feb 21(Tue)	10:40am - 11:00am

K-HUB

Learning Competency: MENDELIAN AND NON-MENDELIAN INHERITANCE MENDELIAN AND NON-MENDELIAN INHERITANCE

This episode covers the Mendelian and Non-Mendelian Traits. It shows how hereditary characteristics are passed from parent organisms to their offspring. It discusses why specific traits do not segregate.

Feb 15(Wed)	3:00pm - 3:20pm
Feb 16(Thu)	10:40am - 11:00am
Feb 22(Wed)	3:00pm - 3:20pm
Feb 23(Thu)	10:40am - 11:00am
Feb 27(Mon)	3:00pm - 3:20pm
Feb 28(Tue)	10:40am - 11:00am
Mar 6(Mon)	3:00pm - 3:20pm
Mar 7(Tue)	10:40am - 11:00am

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Learning Competency: Evolution THEORIES AND EVIDENCE OF EVOLUTION

This episode explains the theories of Darwin, speciation and natural selection, and the gene pool. It also talks about the implications of evolution to all living things and how natural selection works.

Mar 1(Wed)	3:00pm - 3:20pm
Mar 2(Thu)	10:40am - 11:00am
Mar 8(Wed)	3:00pm - 3:20pm
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Mar 13(Mon)	3:00pm - 3:20pm
Mar 14(Tue)	10:40am - 11:00am
Mar 20(Mon)	3:00pm - 3:20pm
Mar 21(Tue)	10:40am - 11:00am

Learning Competency: Evolution BRINGING ORDER TO BIODIVERSITY

This episode explains the ways scientists organize and categorize the tremendous diversity of life, and shows the difference among kingdoms: Monera, Protista, Fungi, Plantae and Animalia. The program likewise looks at the most important phyla and classes of plants and animals.

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Mar 23(Thu)	10:40am - 11:00am
Mar 27(Mon)	3:00pm - 3:20pm

Mar 28(Tue) 10:40am - 11:00am
Apr 3(Mon) 3:00pm - 3:20pm
Apr 4(Tue) 10:40am - 11:00am

Learning Competency: Biodiversity/ Ecosystem BIODIVERSITY AND HABITAT

This episode features Marine and Terrestrial Biodiversity, the habitats and the variety of organisms. The discussions also include how organisms depend on their habitats to survive.

Mar 29(Wed) 3:00pm - 3:20pm
Mar 30(Thu) 10:40am - 11:00am
Mar 5(Wed) 3:00pm - 3:20pm
Mar 6(Thu) 10:40am - 11:00am