NORTH CAROLINA STANDARD COURSE OF STUDY
Crosswalk
Kindergarten Science

The purpose of this document is to provide a general comparison of the 2009 Kindergarten Science Standard Course of Study and the 2023 Kindergarten Science Standard Course of Study. It provides initial insight into similarities and differences between these two sets of standards. This document is not intended to answer all questions about the nuances of the new 2023 standards versus the previous 2009 standards..

Kindergarten Science Standards

Note: The 2023 Kindergarten standards and objectives are not intended to be the curriculum, nor do they indicate the whole of a curriculum which will be written by a local public-school unit (PSU) or school. The standards for this course have been developed to serve as the framework which will guide each PSU in the development of the curriculum for Kindergarten.

Matter and its Interactions		
2023 Standards/Objectives	**2009 Essential Standards/Clarifying Objectives**	Notes
PS.K.1 Understand how objects are described based on their physical properties and how they are used.	*K.P.2 Understand how objects are described based on their physical properties and how they are used.*	
PS.K.1.1 Analyze and interpret data to classify objects by physical properties (size, color, shape, texture, weight and flexibility).	K.P.2.1 Classify objects by observable physical properties (including size, color, shape, texture, weight and flexibility).	
PS.K.1.2 Engage in argument from evidence to summarize how different materials (clay, wood, cloth, paper, etc.) are used based on their physical properties.	K.P.2.2 Compare the observable physical properties of different kinds of materials (clay, wood, cloth, paper, etc.) from which objects are made and how they are used.	

Motion and Stability- Forces and Interactions		
2023 Standards/Objectives	**2009 Essential Standards/Clarifying Objectives**	Notes
PS.K.2 Understand the positions and motions of objects and organisms observed in the environment.	*K.P.1 Understand the positions and motions of objects and organisms observed in the environment.*	
PS.K.2.1 Use models to compare the relative position of various objects observed in the classroom and outside using position words such as: in front of, behind, between, on top of, under, above, below, beside.	K.P.1.1 Compare the relative position of various objects observed in the classroom and outside using position words such as: in front of, behind, between, on top of, under, above, below and beside.	
PS.K.2.2 Carry out investigations to illustrate different ways objects and organisms move (to include falling to the ground when dropped): straight, zigzag, round and round, back and forth, fast and slow.	K.P.1.2 Give examples of different ways objects and organisms move (to include falling to the ground when dropped): ● Straight ● Zigzag ● Round and round ● Back and forth ● Fast and slow	

From Molecules to Organisms		
2023 Standards/Objectives	**2009 Essential Standards/Clarifying Objectives**	Notes
LS.K.1 Understand the characteristics of living organisms and nonliving things.	*K.L.1 Compare characteristics of animals that make them alike and different from other animals and nonliving things.*	
LS.K.1.1 Engage in argument from evidence to summarize the characteristics of living organisms and nonliving things in terms of their: structure, growth, changes, movement, basic needs.	K.L.1.2 Compare characteristics of living and nonliving things in terms of their: ● Structure ● Growth ● Changes ● Movement ● Basic needs	

LS.K.1.2 Use models to exemplify how animals use their body parts to obtain food and other resources, protect themselves, and move from place to place.		New

Heredity- Inheritance and Variation of Traits		
2023 Standards/Objectives	**2009 Essential Standards/Clarifying Objectives**	Notes
LS.K.2 Understand characteristics of organisms that make them alike and different.	*K.L.1 Compare characteristics of animals that make them alike and different from other animals and nonliving things.*	
LS.K.2.1 Analyze and interpret data to compare the characteristics of different types of the same animal to determine individual similarities and differences.	K.L.1.1 Compare different types of the same animal (i.e. different types of dogs, different types of cats, etc.) to determine individual differences within a particular type of animal.	
LS.K.2.2 Analyze and interpret data to compare the characteristics of different types of the same plant to determine individual similarities and differences.		New

Earth's Systems		
2023 Standards/Objectives	**2009 Essential Standards/Clarifying Objectives**	Notes
ESS.K.1 Understand change and observable patterns of weather that occur from day to day and throughout the year.	*K.E.1 Understand change and observable patterns of weather that occur from day to day and throughout the year.*	
ESS.K.1.1 Analyze and interpret data to compare changes in the environment due to weather.	K.E.1.1 Infer that change is something that happens to many things in the environment based on observations made using one or more of their senses.	
ESS.K.1.2 Use mathematics and computational thinking to summarize daily weather conditions noting changes that occur from day to day and throughout the year.	K.E.1.2 Summarize daily weather conditions noting changes that occur from day to day and throughout the year.	

ESS.K.1.3 Obtain, evaluate and communicate information to compare weather patterns that occur from season to season.	K.E.1.3 Compare weather patterns that occur from season to season.	