

Kansas Science Education Standards Exploring MyPyramid with Professor Popcorn

The Kansas Science Education Standards provide a guide to assist Kansas educators in selecting and developing curricula that will best serve to meet the high expectations of learning. We have linked the Kansas Science and Health Standards to the objectives in the Exploring MyPyramid with Professor Popcorn curriculum for grades 1-6. Professor Popcorn meets specific objectives of the KSES. The use of this curriculum will enable teachers and administrators to accomplish meeting these objectives.

(An indicator with a delta (▲) will be emphasized on the new Kansas Science Assessments)

GRADES K-2

Standard 1: Science As Inquiry

The student will experience science as full inquiry. In the elementary grades, students begin to develop the physical and intellectual abilities of scientific inquiry.

Benchmark 1: The student will be involved in activities that develop skills necessary to conduct scientific inquiries.

Indicator 1: The student identifies properties of objects.

Indicator 2: The student classifies and arranges groups of objects by a variety of properties, one property at a time.

Indicator 4: asks and answers questions about objects, organisms, and events in his/her environment.

Standard 2: Physical Science

The student will explore the world by observing and manipulating common objects and materials in their environment.

Benchmark 1: The student will develop skills to describe objects.

Indicator 1: The student observes properties of objects and measures or describes those properties using age-appropriate tools and materials.

Indicator 2: The student separates or sorts a group of objects or materials by properties.

Standard 6: Science In Personal And Environmental Perspectives

The student will have a variety of experiences that provide understanding for various science-related personal and environmental challenges.

Benchmark 1: The student will demonstrate responsibility for their own health.

Indicator: 1: The student engages in personal care.

Indicator 2: The student discusses healthy foods.

Indicator 3: The student discusses that humans need to practice being safe.

GRADES 3-4

Standard 1: Science As Inquiry

The student will experience science as inquiry.

Benchmark 1: The student will develop the skills necessary to do full inquiry. Full inquiry involves asking a simple question, completing an investigation, answering the question, and sharing the results with others.

Indicator 1: ▲ The student asks questions that he/she can answer by investing.

Indicator 2: ▲ The student plans and conducts a simple investigation.

Indicator 3: ▲ The student employs appropriate equipment, tools, and safety procedures to gather data.

Standard 2: Physical Science

The student will increase their understanding of the properties of objects and materials that they encounter on a daily basis. The student will compare, describe, and sort and classify these materials by observable properties.

Benchmark 1: The student will develop skills to describe objects.

Indicator 1: ▲ The student observes properties and measures those properties using appropriate tools.

Indicator 2: ▲ The student describes and classifies objects by more than one property.

Standard 6: Science In Personal And Environmental Perspectives

The student will demonstrate personal health and environmental practices.

Benchmark 1: The student will develop an understanding of personal health.

Indicator 1: ▲ The student discusses the nutritional value of various foods and their contribution to health.

Indicator 2: ▲ The student discusses the safety involves preventing injury by avoiding inappropriate risks and dangers.

Indicator 3: ▲ The student assumes some responsibility for his/her own health, and the health and well being of others.

GRADES 5-7

Standard 1: Science As Inquiry

The student will develop the abilities to do scientific inquiry, be able to demonstrate how scientific inquiry is applied and develop understandings about scientific inquiry.

Benchmark 1: The student will demonstrate abilities necessary to do the processes of scientific inquiry.

Indicator 1: ▲ The student identifies questions that can be answered through scientific investigation;

Standard 2: Physical Science

The student will apply process skills to develop an understanding of physical science including: properties, changes of properties of matter, motion and forces, and transfer of energy.

Benchmark 4: The student will understand and demonstrate the transfer of energy.

Indicator 2: ▲ The student understands that when work is done energy is transformed from one form to another, including mechanical, heat, light, sound, electrical, chemical, and nuclear energy, yet is conserved.

Standard 6: Science In Personal And Environmental Perspectives

The student will apply process skills to explore and develop an understanding of issues of personal health, population, resources and environment, and natural hazards.

Benchmark 1: The student will understand scientific knowledge relative to personal health.

Indicator 1: ▲ The student identifies individual nutrition, exercise, and rest needs based on science and uses a scientific approach to thinking critically about personal health, I