

Gifts of Gold Content Standards
Lesson 1: Seeds, Stalks and Science
Grades: K-2

Project Area Skill refers to the subject matter based skill which youth demonstrate in relation to the correlating content standard.

Objective:

Art-

Content Standard 1: Learn and develop the essential skills and technical demands unique to dance, music, theatre/drama, and visual arts.

Visual Arts Benchmarks: K-4: A,B

Project Area Skill: The youth will develop a variety of methods for shaping and curling corn husks into works of art. They will also embrace the varieties of textures and colors that corn husks offer.

Content Standard 4: Demonstrate an understanding of the dynamics of the creative process.

Visual Arts Benchmarks: K-4: A

Project Area Skill: After completing their piece of corn husk art the youth will discuss the meaning of their artwork with an adult. They will be asked to explain the meaning of their picture as well as describe the various textures used.

Content Standard 5: Observe, discuss, analyze, and make critical judgments about artistic works.

Visual Arts Benchmarks: K-4: C

Project Area Skill: Upon completion of their artwork, the youth will discuss what they have done with an adult. They will discuss the textures and colors of the work of art as well as what the picture means to the youth.

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Career Readiness-

- 1. Students will identify their career interests and aptitudes to develop an educational plan which supports personal career goals.**

Benchmarks: K-4: A,B

Project Area Skill: The youth will learn the basic skills to grow corn. They will watch a corn seed grow, learn the importance of seed storage and how to recycle various parts of the corn plant. Moreover the youth will learn the importance of the corn industry and how it is integrated into their every day lives. They will also have an increased awareness about the role of a farmer.

- 2. Students will utilize and manage resources effectively to produce quality services and products.**

Benchmarks: K-4: A,B

Project Area Skill: The youth will set short term goals to complete assignments based on the specified time given by their group leader. They will also use the materials for the activities such as scissors, glue and paint responsibly to produce a quality corn art project.

- 4. Students will develop and demonstrate responsible and ethical workplace behaviors.**

Benchmarks: K-4: A,B,C

Project Area Skill: As they work together to learn plant parts, create corn husk pictures and measure various objects around the room the youth will demonstrate proper conduct with their peers and group leaders.

5. Students will develop effective leadership, interpersonal, and team skills.

Benchmarks: K-4: B,C

Project Area Skill: The youth will exercise their interactive group skills while working in groups to observe corn roots affected by gravity and measuring various objects around the room. They will learn through these activities how positive attitudes can help the group members to achieve the tasks set out for them.

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Language Arts-

- 1. Reading and Listening for Comprehension: students will apply strategies and skills to comprehend information that is read, heard, and viewed.**

Benchmarks: K-4: A,B,C,D

Project Area Skill: The youth will learn terms that are used by corn growers such as tassel, annual and sprouting. They will listen to their group leader tell them the implications of each activity and on their worksheets, read the directions for the activity as well as the “corny” jokes offered on each page.

- 2. Writing and Speaking for Expression: students will communicate effectively through speaking and writing.**

Benchmarks: K-4: A,B,C

Project Area Skill: The youth will evaluate their learning by answering questions aloud in discussion lead by the group leader about activities to learn about corn. They will also write down their observations of the effects of gravity on the root growth of a seed of corn. Furthermore the youth will be encouraged to record the skills they have learned after many of the activities including what skills they remember about gardening and hand tools used by a farmer to grow corn.

- 3. Literature and Media: students will use literature and media to develop an understanding of people, societies, and the self.**

Benchmarks: K-4: A,B

Project Area Skill: The youth will learn about the cultural aspects of corn through the book “Corn is Maize” by Alik. This book will help to give the youth clues as to how corn came to be so prominent in our culture as well as how corn evolved from a grass plant long ago and was cultivated by Native Americans.

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Math-

- 1. Geometry: students will understand geometric concepts and applications.**

Benchmarks: B,D

Project Area Skill: In one activity the youth will draw a map to show how they got from their house to the 4-H meeting. The will include words that describe place such as near to etc. By the end of this activity they should be able to name at least one direction.

- 2. Measurement: students will understand measurement systems and applications.**

Benchmarks: K-4: A,B

Project Area Skill: The youth will be given measurement tools such as rulers, measuring tape and yard sticks. They will also be taught to distinguish between the measurement unit of a yardstick and a standard ruler. Furthermore the youth will learn how to measure objects and people around them and determine which type of measurement unit is best used for a specific object.

- 3. Data Analysis and Probability: students will understand how to formulate questions, analyze data, and determine probabilities.**

Benchmarks: K-4: A,C

Project Area Skill: The youth will record their measurements in charts provided by their worksheet. They learn the importance of properly organizing data in this manner so they may look back at it and use it as a resource.

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Project Area Skill refers to the subject matter based skill which youth demonstrate in relation to the correlating content standard.

Objective:

Science-

Strand I: Scientific Thinking and Practice

Standard I: Understand the processes of scientific investigations and use inquiry and scientific ways of observing, experimenting, predicting, and validating to think critically.

K-4 Benchmarks: I,II,III

Project Area Skill: The youth will learn the effects of gravity on a young corn plant's root system. Once the seed has sprouted the youth will be asked to record their observations of the root every few days. The teacher will be rotating the seed over time so the root eventually forms a square as it follows the downward pull of gravity. Upon completion of the activity the class will hold a group discussion based on their findings.

Strand II: Content of Science

Standard II: Life Science: Understand the properties, structures, and processes of living things and the interdependence of living things and their environments.

K-4 Benchmarks: I,II

Project Area Skill: The youth will learn the basic parts of the corn plant. They will also discuss the differences between different varieties of corn plants, in height and growing cycle perennial vs. annual. Furthermore the youth will watch a young corn plant push its roots toward the pull of gravity.

Strand II: Content of Science

Standard III: Earth and Space Science: Understand the structure of Earth, the solar system, and the universe, the interconnections among them, and the processes and interactions of Earth's systems.

K-4 Benchmarks: I

Project Area Skill: The youth will study the phases of the moon and create a moon phase chart on a paint stick. They will also draw a picture of the moon on a date of their choosing, then two weeks later draw the moon again and compare their pictures. Upon completion of the activity they will learn how the farmer relies on both the sun and the moon to grow successful crops.

Strand III: Science and Society

Standard I: Understand how scientific discoveries, inventions, practices, and knowledge influence, and are influenced by, individuals and societies.

K-4 Benchmarks: I

Project Area Skill: The youth will learn about the various tools used by a farmer in the field. They will be allowed to try out some of the tools themselves and participate in discussion about how tools can make our lives easier.

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Social Studies-

- 1. History: students are able to identify important people and events in order to analyze significant patterns, relationships, themes, ideas, beliefs, and turning points in New Mexico, United States, and world history in order to understand the complexity of the human experience.**

Benchmarks: K-4: C

Project Area Skill: The youth will learn about the history of corn by watching clips from a video and listening to excerpts from the book “Corn is Maize” by Aliko. They will learn about historical figure, Christopher Columbus who brought corn to the old world and the Native Americans who, through selective planting over hundreds of years made corn the producer it is today.

- 2. Geography: students understand how physical, natural, and cultural processes influence where people live, the ways in which people live, and how societies interact with one another and their environments.**

Benchmarks: K-4: A,B,C,F

Project Area Skill: The youth will look at maps of the new world and the old world and play “Columbus” in a pin a corn cob on a boat activity. They will also practice NSEW by identifying them on a map, and later making their own map from their house to where the 4-H meeting is being held using the directions NSEW. Furthermore the youth will learn about how the environment is formed into fields by farmers to create corn crops.