

The following information was derived from the Kentucky Department of Education's website under "Core Content for Assessment version 4.1." Only the elementary standards were reviewed, however, we would be happy to work with teachers of middle and high school students to ensure that their students are also receiving appropriate content during our educational tours.

Practical Living

Overall Goals

2.30 Students evaluate consumer products and services and make effective consumer decisions.

2.33 Students demonstrate the skills to evaluate and use services and resources available in their community.

Consumerism

PL-EP-3.1.2 Students will identify major factors (price, quality, features) to consider when making consumer decisions.

As a part of the educational program at Hinton's Orchard, students have the opportunity to watch our apple grading process which separates different sizes of fruit for consumer benefit as well as the separation of top quality fruit from our "seconds" grade. We discuss the price difference in the apple grades as well as different packaging sizes (i.e. cheaper price per pound for larger quantities). Further we discuss that different farms grow different products and discuss many uses for apples, pumpkins, and corn.

Science

Overall Goals

2.4 Students use the concept of scale and scientific models to explain the organization and functioning of living and nonliving things and predict other characteristics that might be observed.

2.6 Students understand how living and nonliving things change over time and the factors that influence the changes.

Earth/Space Science

SC-EP-2.3.2 Students will describe patterns in weather and weather data in order to make simple predictions based on those patterns discovered.

Students discuss the need for rain, sun, warm and cool weather for growing crops. The life cycle of apples and pumpkins through the seasons are also discussed.

Biological Science

SC-EP-3.4.1 Students will explain the basic needs of organisms.

SC-EP-3.4.3 Students will describe the basic structures and related functions of plants and animals that contribute to growth, reproduction and survival.

SC-EP-3.4.4 Students will describe a variety of plant and animal life cycles to understand patterns of the growth, development, reproduction and death of an organism.

Students discuss their basic needs and equate those to the basic needs of plants, specifically apples and pumpkins. A joint apple and pumpkin tour will discuss the similarities and differences in apples and pumpkins (perennial vs. annual, tree grown vs. vine grown, pollination, growing cycle).

Energy Transformations

- SC-EP-4.6.1 Students will describe basic relationships of plants and animals in an ecosystem (food chains).
- SC-EP-4.6.2 Students will describe evidence of the sun providing light and heat to the Earth.

Students will discuss the role of bees in pollination and the growing of fruits and vegetables. We also discuss various uses for apples, pumpkins, and corn as part of the tour covering both human and animal uses. A discussion of the effect of sunlight and the different seasons on plants is a big part of the tour.

Social Studies

Overall Goals

2.18 Students understand economic principles and are able to make economic decisions that have consequences in daily living.

Economics

SS-EP-3.3.1 Students will define basic economic terms related to markets (e.g., market economy, markets, wants and needs, goods and services, profit, consumer, producer, supply and demand, barter, money, trade, advertising).

Because we are a working farm that includes an on-farm market, students have the opportunity to witness and discuss the process of taking fruits and vegetables from seed, through planting and growth, to harvest and sale. While in our market building, students discuss the different packaging and products available for apples and about the various desires of our customers and how we respond to those consumer desires.