

# Second Grade Lesson

*Lesson Plan for Grade 2, Science Standards*

*Prepared by Lewis Farms & Petting Zoo*

## OVERVIEW & PURPOSE

The Purpose of this lesson is to teach the students about the needs of an apple tree. The students will learn if apple trees need water and sunlight to survive or if it is simply not necessary.

## EDUCATION STANDARDS

Connection to Michigan common core standard; 2-LS2-1

Plan and conduct an investigation to determine if plants need sunlight and water to grow.

Standards provided by the Michigan Department of Education

[https://www.michigan.gov/documents/mde/K-12\\_Science\\_Performance\\_Expectations\\_v5\\_496901\\_7.pdf](https://www.michigan.gov/documents/mde/K-12_Science_Performance_Expectations_v5_496901_7.pdf)

## OBJECTIVES

1. To allow students to dig deeper into education by providing for them adequate resources that they wouldn't find in a classroom.
2. Creating a hands-on environment to ensure a better understanding of the topic at hand for the students.

## MATERIALS NEEDED

1. Access to Lewis Farms and Petting Zoo.
2. Captivated audience to ensure every student is getting all the information.
3. Ambition to learn and have fun while doing so.

## VERIFICATION

1. Ask the student questions while performing the lesson or following the lesson.
2. Ask the students to point out the topic that you are teaching them about during the lesson.

## ACTIVITY

To start the short lesson with your students, guide them to **Station 2** the second-grade station on the map provided for you in your teacher bag.

When you arrive at the station you might realize that you are standing in front of a tree and depending on the time of the year you might realize some apples beginning to form or they might be already formed.

This lesson will teach your students the effect that the sun has on a apple tree and the effect it will have on the tree if it doesn't receive enough sunlight.

For starters, the tree needs 6 hours of sunlight a day to produce fruit during the growing season.

Branches exposed to sunlight remain fruitful and produce bigger fruit than branches exposed to less sunlight. When branches remain shaded they grow. For this reason, it is

important to do most pruning or trimming towards the top of the tree and in ways that it allows sunlight to the lower branches.

Ask Students, do these trees need sunlight to perform efficiently or can they perform without it?

**Other Interesting Facts:**

Did you know that young apple trees can suffer from sunburn?

Although the sun is crucial to the growing of the young tree and the fruit that it bears, sunlight can harm young trees. To avoid this a farmer will use a mixture of latex paint to coat the lower part of the tree to reflect the sunlight. It is a baby trees sunblock!

