

Plant Picasso

(5th Grade Rotational Version)

Morning Learning Stations for Students –

STATION 1: Plant Picasso Lesson (Needs 4 Adults)

- (30 min) Learn how healthy soils make healthy plants, which create vibrant paints
 - o Learn about three particles in soil
 - o Learn about the main three nutrients for plants and discuss nutrients needed in smaller amounts (Macro VS Micro nutrients)
 - o Understand the life cycle of corn and the main nutrients needed for quality plants
 - o Explore how paint is made for movies and how paint can be made at home
- (15 min) Paint with plants

STATION 2: Scoop on Soil Activity (Needs 4 Adults)

- (30 min) Learn about the importance of Soil and Soil Profiles
- (15 min) Review Soil Profiles and complete the Soil Activity Chart

LUNCH BREAK

Afternoon Learning Stations for Students –

STATION 3: Explore IQhub & Drive Tractor Simulator (Needs 4 Adults)

- (60 min) IQhub Scavenger Hunt (2 students at a time go drive tractor simulator)

STATION 4: Environmental Lesson (Needs 4 Adults)

- (15 min) Soil Texture Activity: Compare/ contrast different soil types
 - o Review the particles in soil
 - o Examine color and texture of different types of soil
 - o Learn about Soil Profiles
 - o Discuss how to make a Soil Profile Jar
- (20 min) Go walk trail around AgroLiquid and discuss the following
 - o Importance of preserving wetlands and habitats
 - o Types of weathering/ erosion and ways to control
 - o Human Impacts on the environment
 - o Renewable and Non-Renewable Energy
- (25 min) Food Chain/ Food Web Activity
 - o Discuss food chains and food webs
 - o Examine how organisms are connected to each other for survival
 - o Discuss how energy is transfer through ecosystems

Michigan Learning Standards for today's IQhub visit –

- Science Standards:
 - 5-LS1-1 Plant Requirements – Air and Water
 - 5-LS2-1 Environmental Matter Cycling
 - 5-ESS2-2 Water Availability and Distribution
 - 5-ESS3-1 Protecting Earth's Resources and Environment
 - 5-PS3-1 Food Energy from the Sun

- Math Standards:
 - 5.MD Measurement and Data
- Career Awareness:
 - Target 3: Engage Students in Career Awareness Activities
 - Identify jobs in a Career Zone; include what is a nontraditional job

Possible Careers Discussed in today's IQhub visit –

- Farmer
- Harvester
- Mechanic
- Soil Scientist
- Vermiculturist
- Composter
- Agronomist
- Environmentalist
- Ecologist
- Contractor
- Landscaper
- Entrepreneur