

# **Plant Picasso**

## **(6<sup>th</sup> – 8<sup>th</sup> 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 how matter is cycled and energy flows throughout fruit and vegetable crops
  - o Explore how plant paint can be made at home
- (15 min) Paint with plants

#### **STATION 2:** Soil Activity (Needs 4 Adults)

- (25 min) Learn about the importance of Soil and Soil Profiles
- (20 min) Evaluate soil samples and make recommendations

### **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)

- (30 min) Go walk trail around AgroLiquid and discuss the following:
  - o Renewable and Non-Renewable Resources
  - o Effects of Resources Availability
  - o Human Impacts on the environment
- (30 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:
  - MS-LS1-6 Photosynthesis: Matter Cycling – Energy Flow
  - MS-LS2-1 Effects of Resource Availability
  - MS-LS2-3 Matter Cycling and Energy Flow in Ecosystems
  - MS-LS2-5 Biodiversity and Ecosystem Services Solutions
  - MS-ESS3-3 Human Impacts in the Environment
  - MS-ESS3-4 Human Consumption of Natural Resources
- Math Standards:
  - MS-5.MD Measurement and Data
- Career Awareness for 6<sup>th</sup> Grade:

- Target 3: Engage Students in Career Awareness Activities
  - Identify jobs in a Career Zone; include what is a nontraditional job
  - Basic soft skills/work ethic discussions
- Career Exploration for 7<sup>th</sup> – 8<sup>th</sup> Grade:
  - Target 3: Engage Students in Career Awareness Activities
    - Identify personal traits and characteristics that may later link to career interests
    - Soft skills/work ethics

**Possible Careers Discussed in today's IQhub visit –**

- Artist
- Farmer
- Harvester
- Mechanic
- Soil Scientist
- Engineer
- Agronomist
- Environmentalist
- Ecologist
- Contractor
- Landscaper
- Entrepreneur