

Water Cycle

(4th Grade Rotational Version)

Morning Learning Stations for Students –

STATION 1: Explore IQhub, Kids' Korner & Drive Tractor Simulator (Needs 4 Adults)

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

STATION 2: Water Cycle Lesson (Needs 4 Adults)

- (40 min) Presentation: Water Cycle
 - o Discuss the water cycle and how it impacts all living things
 - o Discuss how human choices impact the environment
 - o Learn about the weather and the impacts on human activities
- (20 min) Visualize Condensation and Precipitation (Make Clouds and Rain)

LUNCH BREAK

Afternoon Learning Stations for Students –

STATION 3: Environmental Walking Trail (Needs 4 Adults)

- (25 min) Soil Texture Activity: Compare/ contrast different soil types
 - o Discuss 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

STATION 4: Soil and Water Filtration Lesson (Needs 4 Adults)

- (10 min) Discuss the importance of Soil and Water
- (15 min) Soil and Water Videos
- (20 min) Water Filtration Foldable

Michigan Learning Standards for today's IQhub visit –

- Science Standards:
 - 4-LS1-1 Internal and External Structures
 - 4-ESS2-1 Weathering and Erosion
 - 4-ESS2-2 Mapping Earth's Features
 - 4-ESS3-1 Renewable and Non-Renewable Energy
- Math Standards:
 - 4.MD Measurement and Data

Possible Careers Discussed in today's IQhub visit –

- Farmer
- Harvester
- Mechanic
- Soil Scientist
- Hydrologist
- Fisheries and Wildlife Scientist
- Composter
- Agronomist
- Environmentalist
- Ecologist
- Contractor
- Landscaper
- Entrepreneur