

Wonderful World of Water

(6th – 8th Grade Rotational Version)

Morning Learning Stations for Students –

STATION 1: WWW – Wonderful World of Water Lesson (Needs 4 Adults)

- (30 min) Learn how the world is dependent on clean water and how we are all connected
 - o Discuss activities requiring water and how weather can affect them
 - o Review the water cycle to understand the difference between ground water and surface water
 - o Trace the path of polluted surface water to the ocean and discuss how water quality effects everyone
 - o Examine the role that oceans play in circulating water all over the world
 - o Explore the role humans play in the distribution of Earth's resources
- (15 min) Making a Difference Posters
 - o Discuss ways students can create a positive impact on the water cycle
 - o Create posters to communicate with others

STATION 2: Soil and Water Filtration Lesson (Needs 4 Adults)

- (10 min) Discuss the importance of Soil and Water
- (30 min) Water Filtration Challenge
- (5 min) Examine the role humans play in water quality

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
 - o Importance of wetlands
- (30 min) Water Quality Activity
 - o Discuss ways to evaluate water quality and learn the four main factors
 - o Examine how organisms can determine water quality through biological assessment
 - o Discuss how humans can develop solutions for increasing biodiversity and ecosystem conservation

Michigan Learning Standards for today's IQhub visit –

- Science Standards:
 - MS-LS2-1 Effects of Resource Availability
 - MS-LS2-5 Biodiversity and Ecosystem Services Solutions
 - MS-ESS2-4 Cycling of Water Through Earth's Systems
 - MS-ESS2-5 Interacting Air Masses and Weather

- MS-ESS2-6 Atmospheric and Oceanic Circulation
 - MS-ESS3-1 Uneven Distribution of Earth's Resources
 - 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 6th 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 7th – 8th 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 –

- Farmer
- Hydrologist
- Meteorologist
- Soil Scientist
- Engineer
- Agronomist
- Environmentalist
- Ecologist
- Contractor
- Landscaper
- Entrepreneur