Washington Township School District						
STEM/Makerspace Curriculum						
Grade:	5	Mystery Science Unit/Project Title:	Mystery Science: A Watery Planet STEM: The Water Project Thematic Unit			
NJ Learning Standard(s):	5-LS2-1					
Objective:		 Students will: Evaluate if water can be "cleaned" Evaluate if molecules can be removed from water Create a water filtration system Apply learning and findings to effectively respond to question: How does the scarcity of fresh drinking water effect lives? Identify 3 potential impacts of fresh water scarcity Explore issues relating to water scarcity, the effects of dirty and unsafe water, and the lack of proper sanitation and hygiene in a community 				
STEM/ Unit Activities		Creating Fresh Water				
Suggested Assessments:		 Science Lab PURIFYING WATER packet (teacher created and shared) Science Journal Thematic Unit "project" – each teacher will have to create Unit Test 				
Supplies Needed:		 a measuring cup a teaspoon 2 baby food jars with activated charcoal water red food coloring 	lids			



Thematic/Cross-Curricular Unit: https://thewaterproject.org/resources/lesson-plans/

STEM activity: https://thehomeschoolscientist.com/charcoal-water-purifying-experiment/

Cross-Curricular Tie In: "Water Water Anywhere" illustrates the principal of water abundance versus water scarcity, both physical and economic, by having students move through three stations in which they must fill a water bottle using different rules at each station.

Resources to **Support Unit:**

"<u>Dirty Water... So What?</u>" uses a jigsaw approach to have students teach each other about four potential effects of dirty water: poor health, increased hunger, perpetual poverty, and lack of access to education.

"<u>Hand Washing Hang Ups</u>" explores the challenges of teaching hand washing and introduces students to the innovative, low cost solution of the tippy-tap before having them get creative in their own solution making.

https://thewaterproject.org/resources/water pollution filtration experiments

http://stem-works.com/external/activity/6 (move this to forensics)

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STEM/Makerspace Curriculum						
		Mystery	in product carried and			
Grade:			Notate w. Caianaa, Matawa Dlant			
	5	Science	Mystery Science: Watery Plant			
		Unit/Project	STEM: Musconetcong Watershed Study			
		Title:				
NJ Learning	E ECCO 4	F F662 2 F662 6				
Standard(s): 5-ESS2-1 5-ESS2-2 ESS3.C						
		Student will:				
		• Explore Earth's systems, specifically the hydrosphere and the Earth's fresh water as a natural resource				
Objective:		Learn how there's surprisingly little fresh water there is on earth, at least compared to the total amount				
		of water				
STEM/ Unit Activities		Evaluate how salt water, even though it is common, is not actually something we can drink to survive Museupstrong Wetershod Study.				
		Musconetcong Watershed Study				
		Scientists from the Musconetcong Watershed will teach students hands-on lessons that covers: the water				
		cycle, fresh versus salt water, consumable water, how water "cleans" itself, how man/the environment directly				
		effect healthy water systems.				
		*Students will follow the scientific process and complete a packet where they: form a hypothesis, pose a				
		scientific question, collect data, analyze/compare data, evaluate information gathered, prove or disprove				
		hypothesis and summarize unit of study.				
		This is an interactive, hands-on STEM activity, which will conclude in a "healthy stream activity" at Meadow				
		Breeze Park.				
		Scientific Process Page	acket*			
Currented Ass	essments:	Questions/Answer S	Sheets			
Suggested Ass		Student participation	on / Q&A			
		Unit Test				
Supplies N	eeded:					
Resources to		Hypothesis sheets				

