

Greenfield McClain High School  
Grades 9-12 NEED Project  
***Energy Activities for Clean  
Environment Promotion***

SUBMITTED BY:  
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# Goal #1: To increase student awareness of costs associated with energy consumption with lighting

- **Energy Content Activities**

- Students learned about various light source types and energy consumption with the use of a watt meter.

- **Activities completed**

- Ohio Energy Project Watt Meter Lesson plans

- **Student Leadership**

- Students were divided into teams of four and evaluated multiple bulbs for level of energy efficiency.

- **Results Achieved**

- Students developed understanding of consideration of energy consumption efficiency in use of various lightbulbs. Students were able to identify bulbs that would save money when used in their homes.

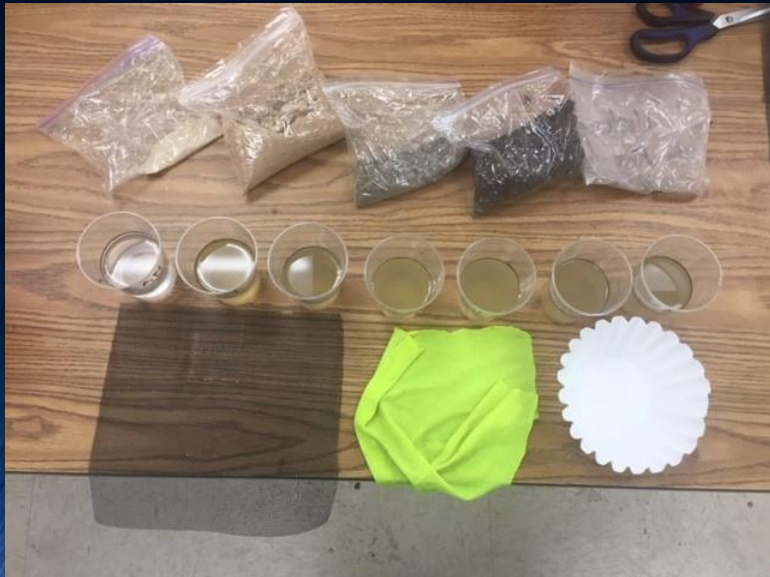
# Watt Meter Activities



# Goal # 2: To identify the environmental implications of air pollution

- **Energy Content Activities**
  - Students learn about the difficulty of purifying the air with the use of coal fired generators.
- **Activities completed**
  - Water purification activity-Each team was charged to use everyday materials to develop a process for cleaning water.
- **Student Leadership**
  - Students work in teams and presented their findings to class.
- **Results Achieved**
  - Students were able to develop a process to clean the dirty water and also identify that protecting the environment through clean energy production reduces the carbon footprint.

# Water/Air Purification Project



Supplies for Project



Starting with water with 1 tsp of particulate in each cup

# Water/Air Purification Project



Here is a student group's water in process of being filtered. Each group had to develop processes for cleaning the water in each cup.

# Goal #3: Students will attend the Ohio Energy Summit and educate other students with energy saving activities

- **Energy Content Activities**

- Students attended a training day at Wright State University to explore energy activities and how to facilitate energy activities.

- **Activities completed**

- Energy Sources Information
- Leadership activities

- **Student Leadership**

- Students took the teaching provided and came back a second day to provide energy activities to teaching to multiple students from elementary schools in the area.

- **Results Achieved**

- Students facilitated energy activities with younger students and taught them about energy saving activities.

# Ohio Energy Project





# Ohio Energy Project

