



3M



Xcel Energy[®]

Goals:

to understand how to promote energy efficiency and reduce energy waste both in our homes and schools

ENERGY SOURCES

RENEWABLE ENERGY



Wind



Hydropower



Solar



Geothermal



Biomass

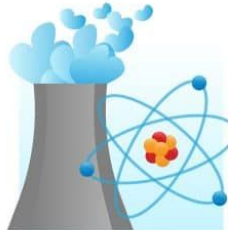
NON-RENEWABLE ENERGY



Oil



Coal



Nuclear



Natural Gas

Carbon Footprint Quiz - Home Energy Use

The amount of greenhouse gasses that are generated by our actions

What's Part of Your Carbon Footprint?



Take shorter showers

Reduce TV and gaming/electronics - play outside

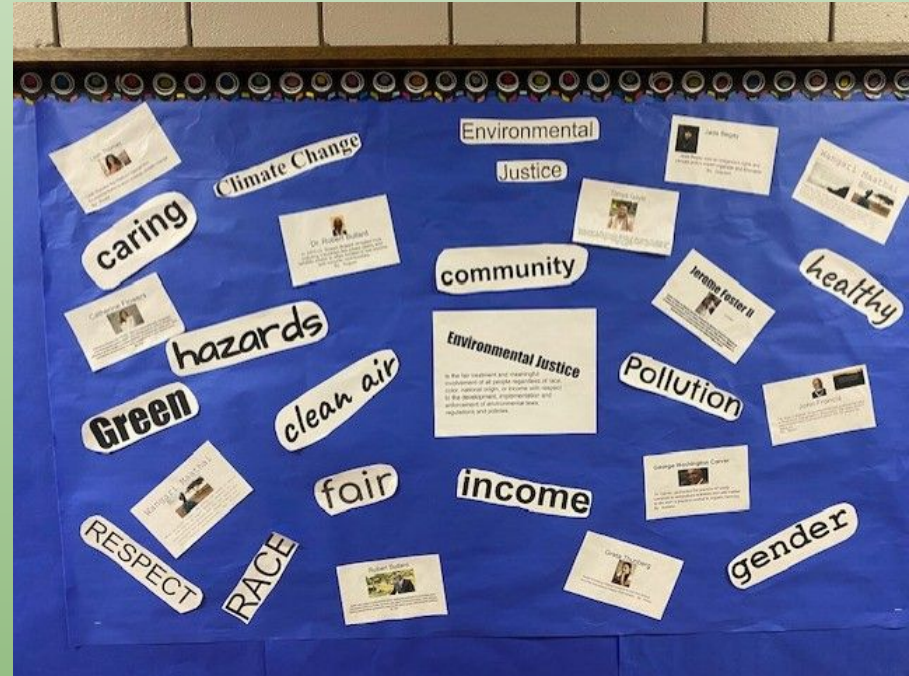
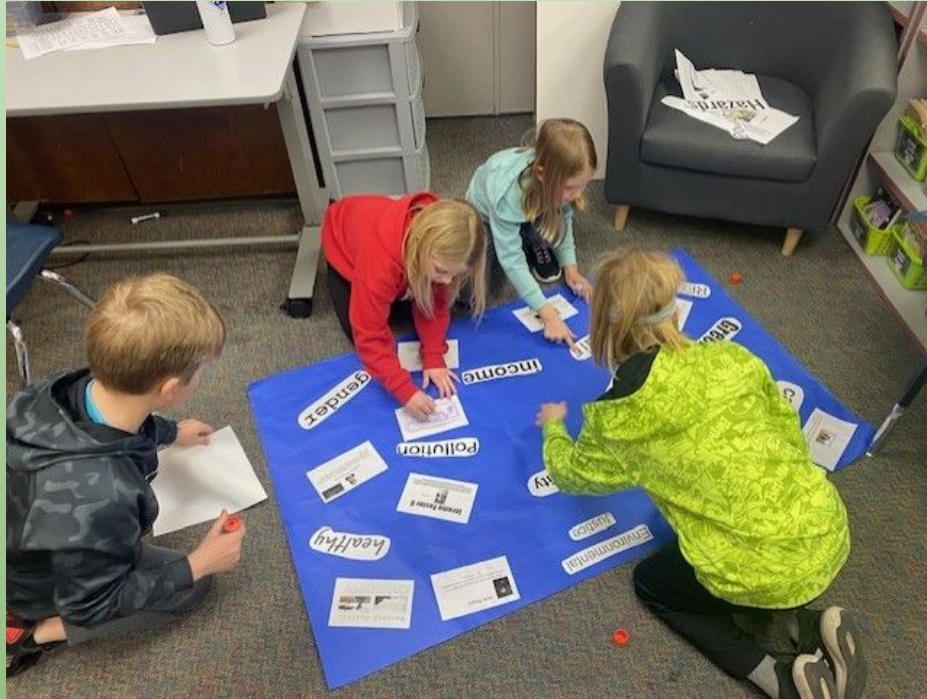
Turn off lights and electronics when not in use

Use alternative transportation-walk and bike

Eat less meat????

Environmental Justice

Everyone has the right to live in a healthy environment.



One of our favorite environmental justice leaders to learn about was Wangari Maathai.



Saving Energy and \$\$\$ in Our School

3 BIGGEST ENERGY HOGS



Lighting

HVAC

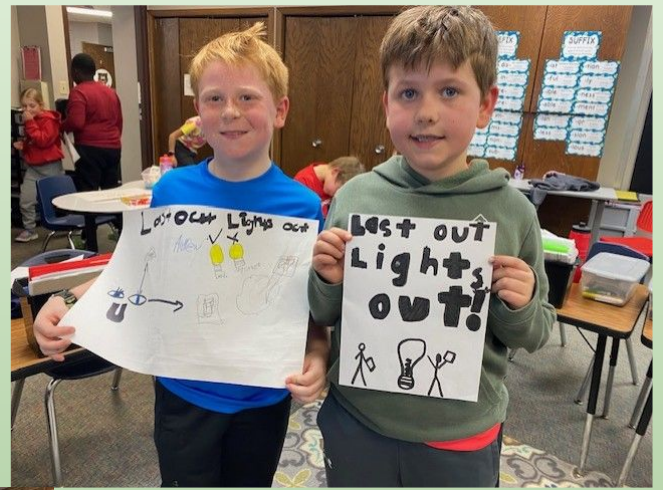
Appliances

Reduce Energy Costs by 10% in Our School

EASY WAYS TO SAVE ENERGY

1. Right Lighting
2. Last Out Lights Out
3. Closing Doors and Windows
4. Turn off appliances





Final Project: Our New Building Tour and Interview



New Medary Elementary Energy Efficiency Considerations

- ❖ Lighting
 - Dimmer switches in classrooms
 - LOTS of natural light
 - Duel light switches
 - LED lights
 - Movement sensors in most areas including bathrooms



New Medary Elementary Energy Efficiency Considerations

❖ HVAC

- Insulated pipes

- Individual thermostats controlled by a main computer

- Ability to set temps during the day at different temp than when the building is empty

Did you know the energy department suggests 68 degrees in cooler months and 78 in warmer months?

Thank you!



Empowered Team 23-24