

Cowan Elementary School Whitesburg, KY presents ENERGY HOUSES



For the past several weeks, our 7th grade class has learned a lot about energy while constructing our energy houses.



Our goal was to learn as much about saving energy as possible so that we could share what we learned with our families. We worked very hard to achieve our final goal and have a family energy night.

7th Grade Class
2022
Advisor: Stephanie Gilbert





The Energy House

We made our energy houses because we wanted to make a scale version of a house that is energy efficient. We started off by making the doors and windows . After that we chose and installed insulation of our choice. Some of the choices where cloth, brown paper, and bubble wrap. Then we made the roofs have a flap, hole, or even detachable roof so that you could see inside.

Lighting

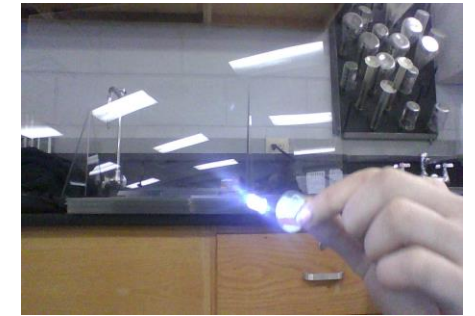
Lighting is important in our energy houses, lighting is important in real homes too.



- The lower the light bulb wattage, the lower the electric bill.

- More lumens equal brighter light. Fewer lumens equal dimmer light.

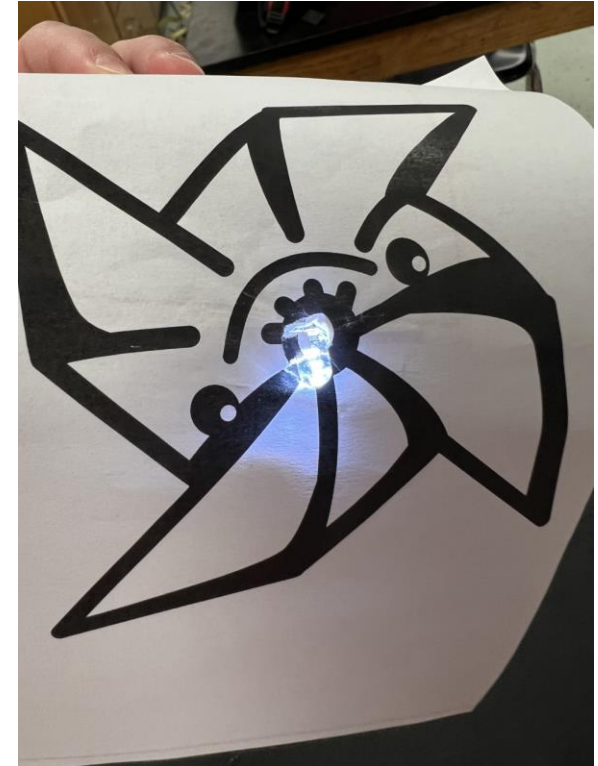
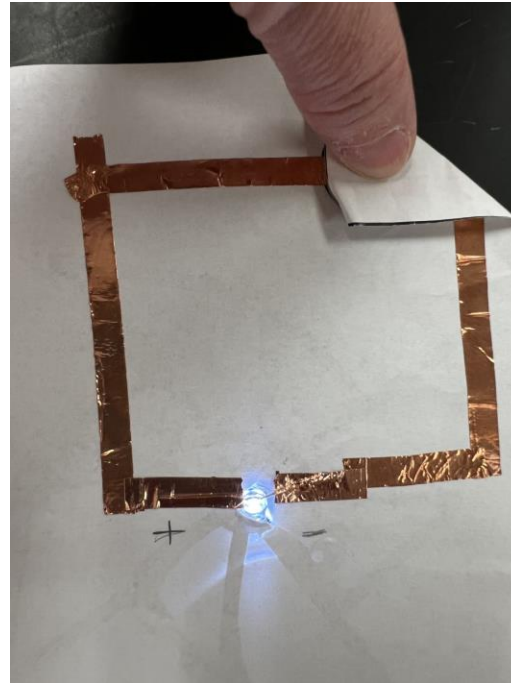
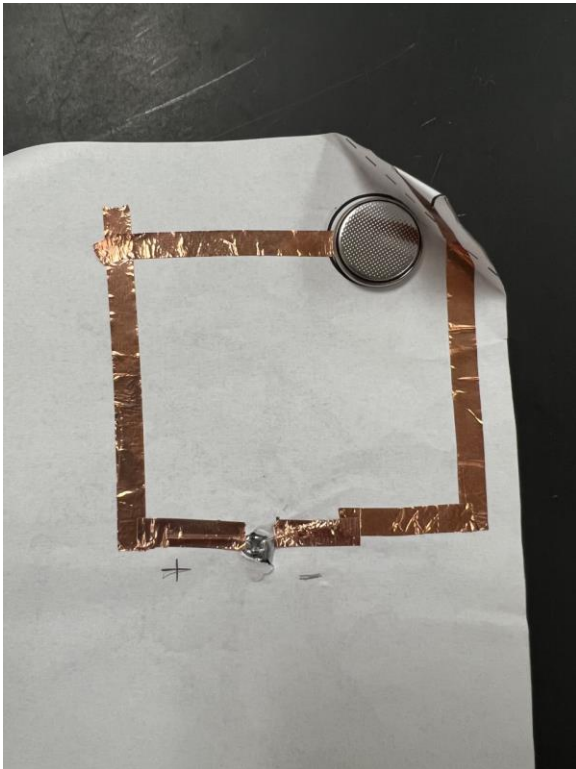
Just like in a real house, our energy house we were able to make a light, with copper tape, a battery, and a small LED light.



What we learned while making a circuit.

We made electrical circuits to add a light to our energy houses. We learned how lumens tell us the brightness of the light and how watts tells us the amount of energy the bulb uses.

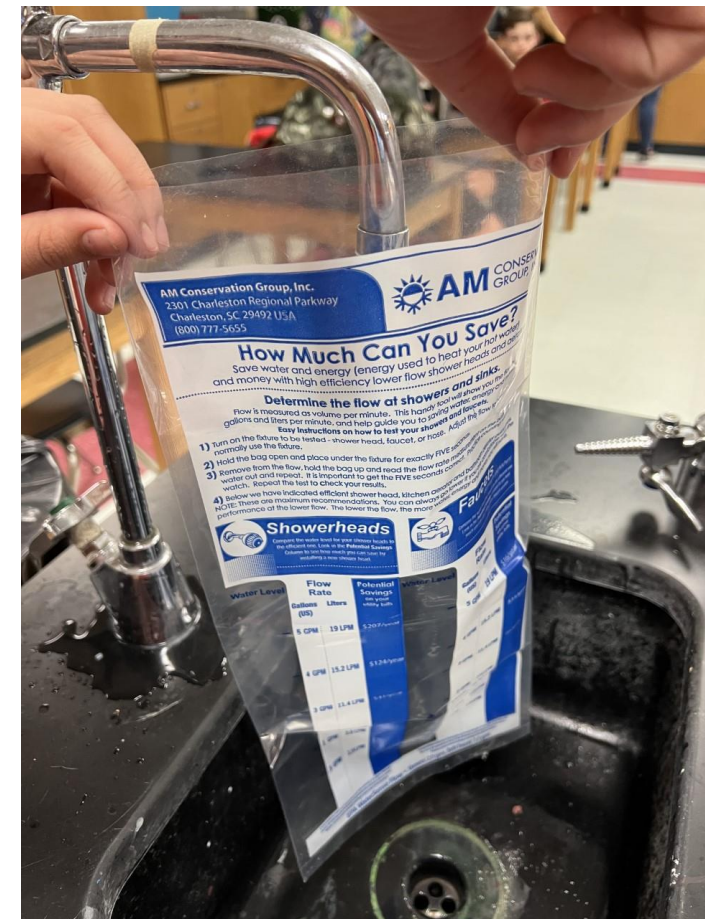
The materials to make a circuit are a copper tape, battery and an LED.



HOW WE LEARNED TO SAVE WATER

- We learned about how to conserve water and energy used to heat water.
- We learned that toilets are the most used water source indoors!
- We also learned that you could save water by turning off the faucet when brushing your teeth, adjust your water heater to the appropriate setting and only run the washer when you have a full load.

We learned how to use a flow bag to determine the amount of water we used from faucets and showerheads.



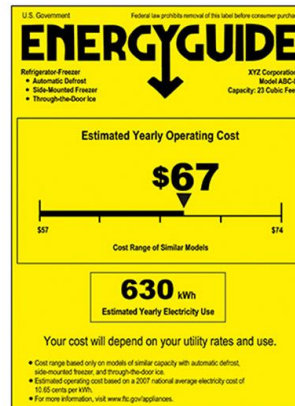
APPLIANCES



■ We learned about how appliances can use a lot of energy. We talked about how we can save energy by reading the energyguide label and looking for the energy star. We chose appliances for our energy houses by using the energyguide to compare models we wanted. This allowed us to choose the most energy efficient model.

An interesting finding from one group was that a mini fridge uses more energy than many regular size refrigerators.

Energy

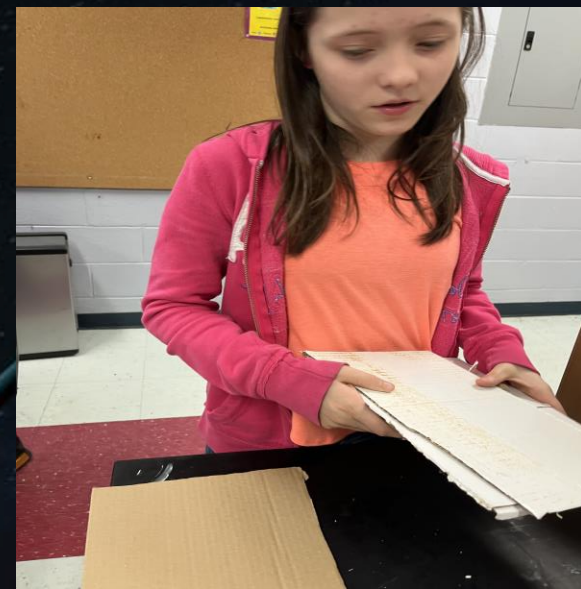


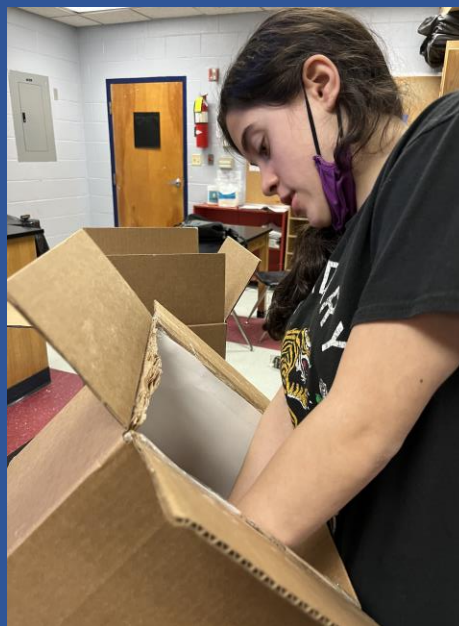


ENERGY NIGHT

Our energy night will be a night to invite families to school to share with them everything we have learned about energy while building our energy houses. We plan to have energy themed games, information stations and to display our energy houses.

We hope everyone has fun and enjoys our Family Energy Night!!





We hope everyone learns a lot at our Family Energy Night! We sure have learned a lot during this project!