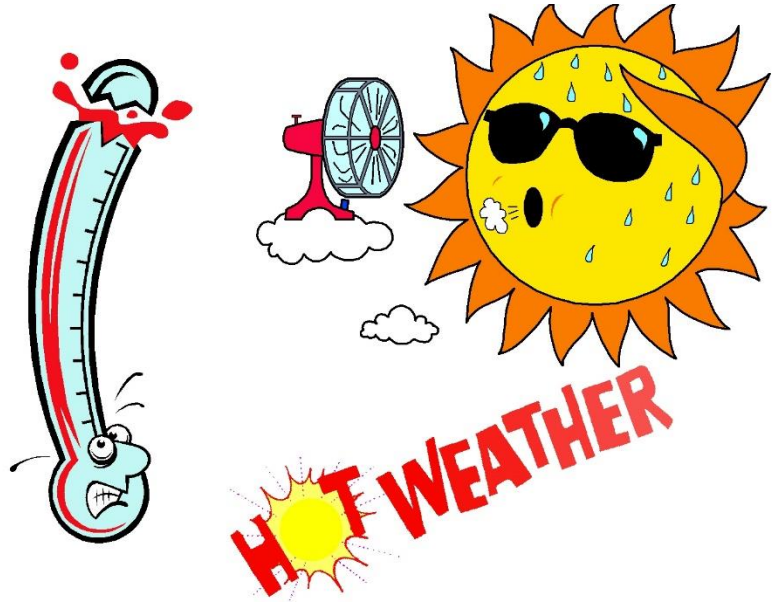


One Cool Science Project

You have learned a little about science and heat. Specifically you have learned how heat moves through conduction, convection, and radiation. You are being asked to apply this knowledge to rectify a serious environmental problem. Sometimes it is so hot that Mr. K's and Mr. F's drinks warm up too much and just don't taste as nice.

Your task is to make a cooler. A cooler is a box that keeps the heat from getting to your food and drinks. The longer your box keeps our drinks cool the better. Both for the environment and for our thirst.



You do have some limitations to work with.

- Your cooler cannot have an external volume bigger than 17 L
- Your internal volume must be big enough to hold a 400 mL beaker

You will have 2 hours to design and build your cooler.

Next class we will test your cooler to see how long it can keep something cool.

You will be making posters to show off your cooler.

- Snazzy product name
- Capacity (how much can your cooler hold)
- Ability to hold cold (numbers)
- How does it block the transfer of heat (Does it block all 3 heat transfer methods? How?)

