

WORKSHOP OVERVIEW

REDUCING OUR CARBON FOOTPRINT: MATH APPLICATION

Calculate Your Carbon Footprint

Carbon is a major building block of life and a major source of non-renewable energy, but do you know exactly how much carbon you use everyday? Calculate a portion of your daily carbon footprint by following the steps on this worksheet!

1. Start with the four activities in the purple box.
2. Determine how long you spent on each of those activities, and record in the yellow box. Pay close attention to your units
3. Multiply your time (yellow box) by the conversion factor in the blue box. Write each result in the green box.
4. Add up the total watts (green boxes) to the watts used from showing and running the dishwasher (red box). Record your answer in the orange box.
5. Finally, convert your answer from Watts to pounds (lbs) using the conversion factor in the orange box.

Leaving the lights on	(Number of Hours)	60 watts/hour	Watts
Using a computer	(Number of Hours)	100 watts/hour	Watts
Microwave	(Number of Minutes)	16 watts/minute	Watts
Watching TV	(Number of Hours)	33 watts/hour	Watts

Your answer was only a small portion of your daily carbon footprint. Imagine how much more carbon would be released into the atmosphere if you calculated everything in your life that adds carbon! Remember, you can reduce your carbon footprint by using reusable containers and water bottles, walking or riding your bike, taking shorter showers, and more!

Calculate your household's carbon footprint, visit:
<https://www3.epa.gov/carbon-footprint-calculator/>

Showering	+	6500 Watts
Dishwasher	+	1200 Watts
Total Watts		
		625 Watts = 1 lbs CO ₂
		lbs CO ₂