

QR Code to
Community
Group link



YOUR NAME
TITLE

School NAME

CleanerContraCosta.org

Climate Change Solutions

School LOGO



Sustainability and Circular Economy

Sustainability:
avoidance of the depletion of natural resources in order to maintain an ecological balance.



Circular Economy:
smarter way of making and using products with less resources; reducing single-use items.

Circular Economy Product examples



Roll over image to zoom in



Sustainable Farming

WAYS TO HELP:

- Rotating Crops
- Cover crops
- Pest Management
- Water management
- Carbon sequestration
- Organic fertilizers
- Promoting biodiversity
- Decrease pollution (water, air)



[Video on Industrial vs. Sustainable Farming](#)

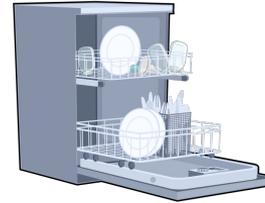
4 Main Areas of Sustainability

1. Energy (in your home, car, etc)



2. Transportation (cars, ships, planes)

3. Water (mainly in home)



4. Waste (both food and trash)



Let's Talk Trash!





Trash Game! HOW LONG TO DECOMPOSE?

In Order	ITEM	How Long To Decompose
1	Cardboard	2 months
2	100% cotton shirt	6 months
3	Chip/Granola Wrapper	10-20 years
4	Clothes with synthetic materials	80+ years
5	Wet Wipes	100 years
6	Aluminum cans	200+ years
7	Plastic Bottle	450 to 1000 years
8	Styrofoam	500 years to never



Trash Game! WHICH BIN DO I GO IN?

RECYCLE

1. Cardboard
2. Aluminum Can
3. Plastic Bottle
4. Foil

30%

COMPOST

1. Pizza Box/To-Go box
(no shine)
2. Soiled napkin
3. Apple
4. Leaves & yard waste

30%

TRASH

1. Chip/Candy Wrapper
2. Amazon envelope*
3. Wet Wipes
4. Styrofoam container
5. “Compostable” Fork

40%



Landfills vs. Composting and Recycling

Landfill: Creates Methane (84 x worse than CO2)
In ~20 years, landfills will be at full capacity.



USA= 4.9lbs of trash per person, per day.
CA Goal= 75% of solid waste diverted.

Composting: Creates Soil + Biogas



Recycling: Creates Circular Economy



Plastic Pollution: The Ocean Clean Up

Goal- remove **90%** of floating plastic

2 parts:

1. Rivers- stop new plastic (gives 80%)
2. Ocean- Clean up current plastic

12,771,454
pounds cleaned
up so far!



Fast Fashion: water polluter + waste

- **13 million tons** of clothes sent to USA landfills per yr & sit for **200 years**
- **10%** CO2 emissions = as much France, Germany and UK combined

WAYS TO HELP:

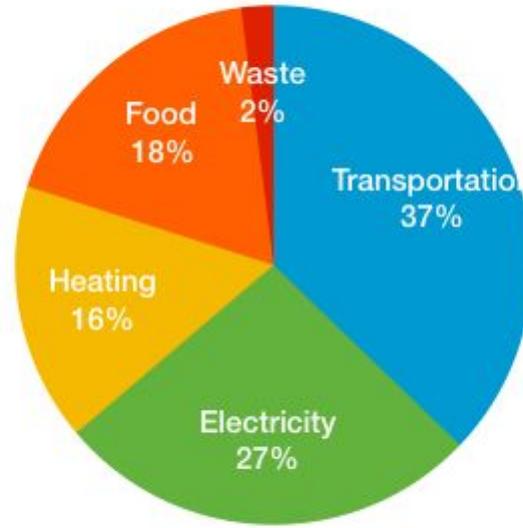
- Wear clothes often
- Buy 2nd hand
- Clothing Swap
- [Send for recycling](#)
- Buy quality
- Mend tears



[Video on Fast Fashion](#)



Household Greenhouse Gas Emission by Source



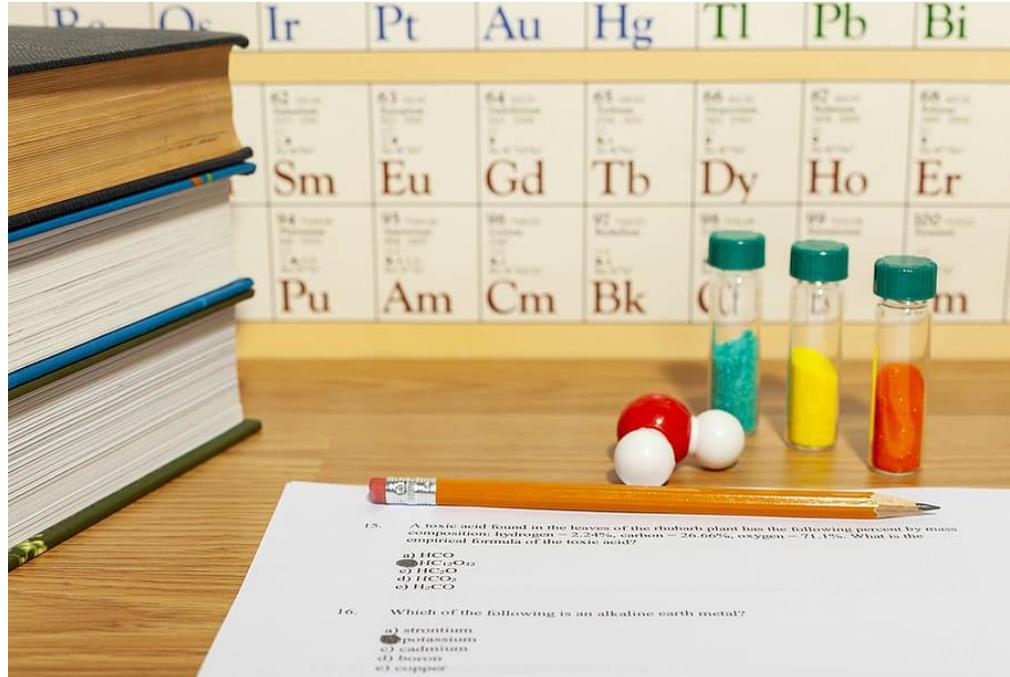
● Transportation ● Electricity ● Heating ● Food ● Waste

66+% of Americans are concerned!

40% of emissions in the U.S. come from

5 basic household activities

GAME TIME!



Climate Solutions Quiz!

1. What is NOT an example of a Sustainable Farming practice?

- A. Planting cover crops
- B. Using chemical fertilizers
- C. Managing water pollution
- D. Promoting biodiversity



Climate Solutions Quiz!

2. What is the biggest category of items that gets thrown into the trash, according to [EPA.gov](https://www.epa.gov)?

- A. Plastics
- B. Paper and Cardboard
- C. Food
- D. Old Socks



Climate Solutions Quiz!

3. In how many years do scientists predict our landfills will be full?

- A. 10
- B. 20
- C. 30
- D. 40



Climate Solutions Quiz!

4. How long does it take styrofoam to break down according to [Sciencing](#)?

- A. 1-10 years
- B. 20-40 years
- C. 100 years
- D. 500+ years



Climate Solutions Quiz!

5. What are the 2 areas the Ocean Clean Up focuses on?

- A. Rivers and Oceans
- B. Oceans and Landfills
- C. Landfills and Rivers
- D. Creeks and Oceans



Climate Solutions Quiz!

6. What can you do to lower fast fashion pollution?

- A. Shop 2nd hand
- B. Do a clothing swap
- C. Send clothes to be recycled
- D. All of the above





Climate Solutions Quiz!

7. What percent of US emissions come from five common household activities (transport, heating, electricity, food, waste) according to [PBS](#)?

- A. 1%
- B. Up to 10%
- C. Up to 40%
- D. Up to 230%

Climate Solutions Quiz!

8. Which Greenhouse gas warms the earth 84 times more than Carbon (CO₂), according to the [EPA](#)?

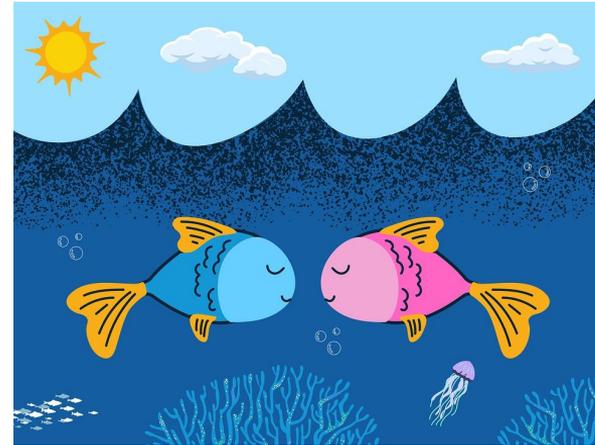
- A. Methane (CH₄)- cow burps, food breaking down
- B. Nitrous Oxide (N₂O)- synthetic fertilizer
- C. Chlorofluorocarbons (CFC)- aerosols, refrigerants
- D. Yurbofloroxides (Y₂K)- oxides, iron



Climate Solutions Quiz!

9. What is found on 88% of the ocean's surface?

- A. Microorganisms
- B. Plastic
- C. Plants
- D. CO₂





**We have Solutions: Join the
Cleaner Contra Costa Challenge!
CleanerContraCosta.org**

Get Started

Get Started



Get Custom Recommendations!

Complete profile



Ready to increase your impact?

Add Actions

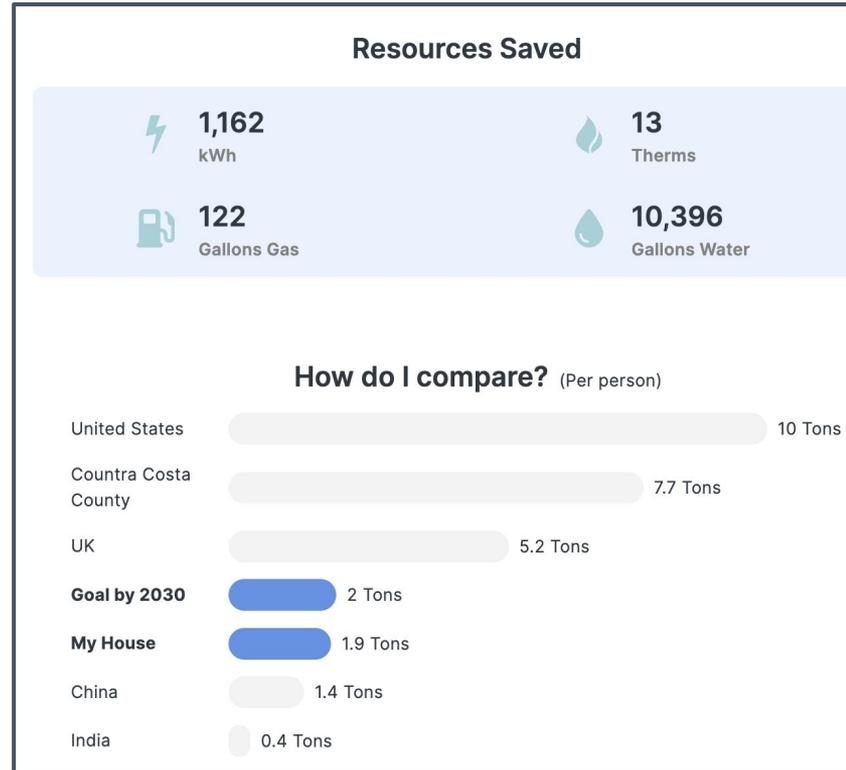
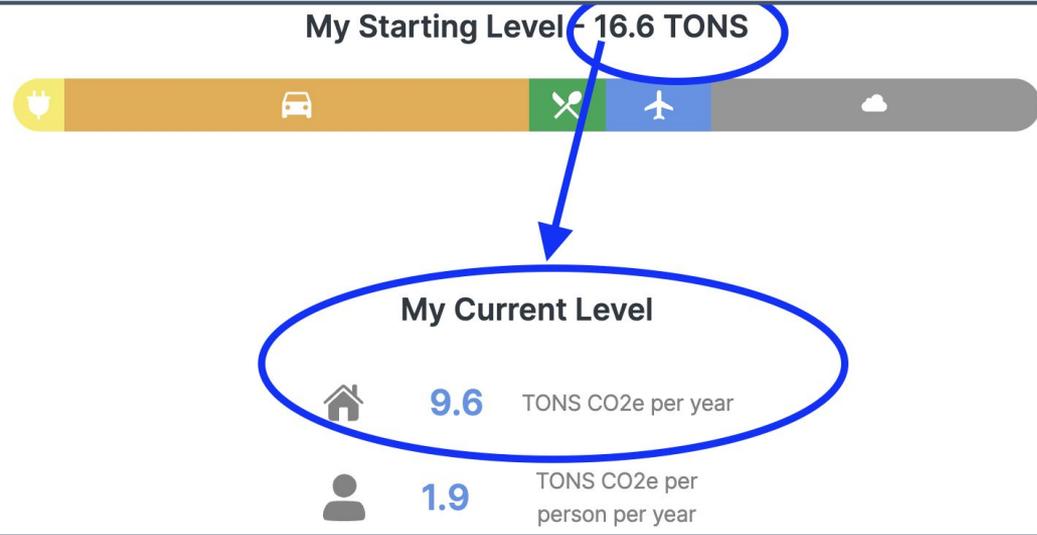


Share Your Success!

Share My Progress



Complete Profile: Household Carbon Footprint



Add Actions: See the Action Categories

Actions

Browse Categories

[Explore All Actions](#)



Be Energy Smart



Clean Energy Home



Shift Your Ride



**Eat Green & Waste
Less**



Be Water Wise



**Community &
Learning**

Learn about the Impact of the Action

Carpool

Carpooling saves money, extends the life of your car and lowers your impact. It's also a chance to relax or have a good conversation. If you have a regular schedule and a medium to long commute, consider joining a carpool!

[VIEW DISCUSSION](#)

[+ CREATE POST](#)

Your Impact **1400 points** ⓘ

[SHARE](#)

UPFRONT COST

\$0 - \$0

\$\$\$\$

TIME COMMITMENT

2.0 hours

⌚ ⌚ ⌚ ⌚

RESOURCE SAVINGS

52 Gallons Gasoline



ANNUAL SAVINGS

\$440



We will carpool miles per week.

Resources for your zip code

Resources

Programs



Clean Air Vehicle Decals

Cut your commute time and drive the HOV lane if you drive a qualifying clean vehicle.

Programs



511 Rideshare and Commuter Benefits Programs

Find Carpool, Rideshare, and Commuter Benefits Programs with 511

Rebate/Credit



511 Contra Costa Try Transit

Try alternative transportation and receive a Clipper Card loaded with \$15!

Rebate/Credit



511 Contra Costa Commuter Incentive

Drive less and make a difference with commute alternatives, eligible participants could receive \$25!

Can I Really Make a Difference?



Example: **Single Use Plastic Bags**

Per Person:

Reusable Bags saves **500** single use bags per year.

Habit Change:

If someone shops for 60 years (20 to 80 y/o), saves **30,000** bags

Community Group Power:

½ of CA Adult population shops= 12+ million x 500 bags= **6 BILLION** plastic bags saved!



High 5 to Learning Today

Check Off Actions Together



Assignment

3 NEW Actions (make habit) by DATE!

EXAMPLES:



Join our Sustainable Youth Club

- Potential Internships \$\$
- Good on college apps
- Meet monthly for games, climate actions, community service, etc
- Activities: Climate Careers Chat, Newsletters, Actions of the Month



Any Questions?

Thank You!



CLEANER
CONTRA COSTA
CHALLENGE

+

School NAME

=

School LOGO

Sustainability Warriors

