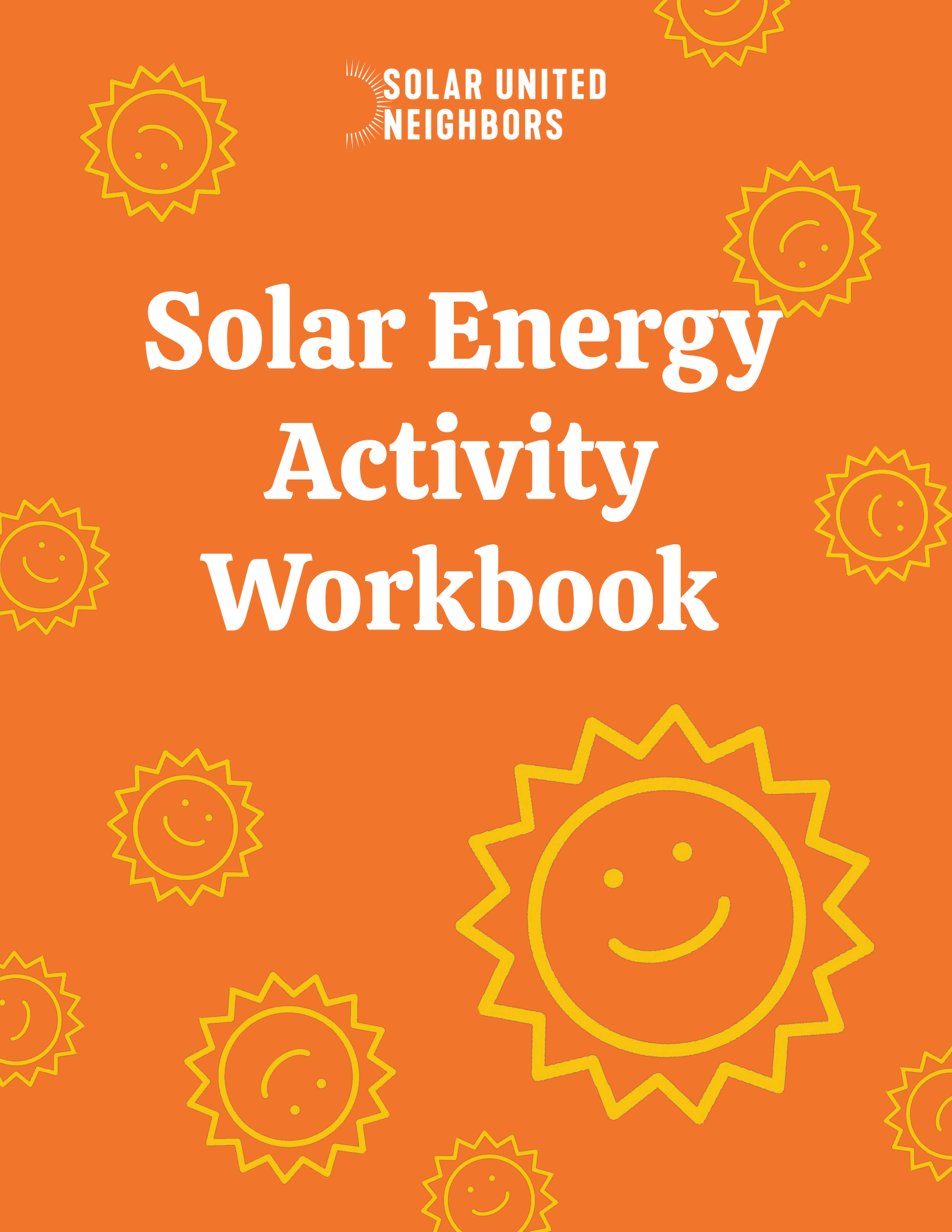




# Solar Energy Activity Workbook



# Scavenger Hunt

Can you find these items around your home?

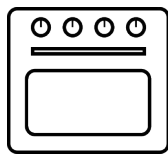
How many can you find?

Instructions:

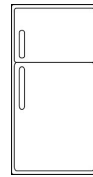
1. Look for these items in your home and count them up!
2. Write the number of items underneath the picture



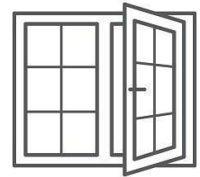
\_\_\_\_\_ Lightbulb



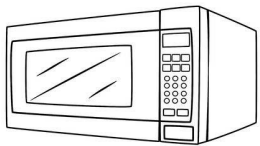
\_\_\_\_\_ Oven



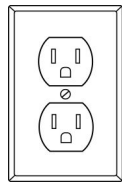
\_\_\_\_\_ Refrigerator



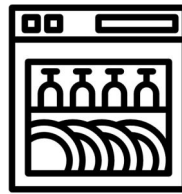
\_\_\_\_\_ Windows



\_\_\_\_\_ Microwave



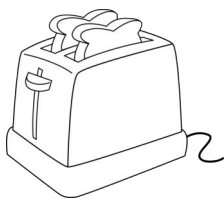
\_\_\_\_\_ Outlets



\_\_\_\_\_ Dishwasher



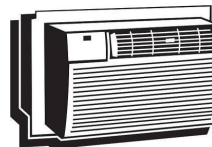
\_\_\_\_\_ Water heater



\_\_\_\_\_ Toaster



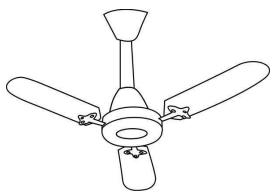
\_\_\_\_\_ Television



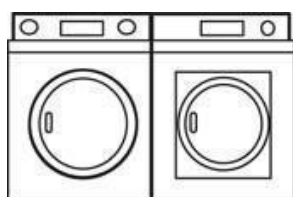
\_\_\_\_\_ Air  
Conditioner



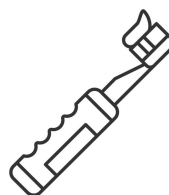
\_\_\_\_\_ Vacuum



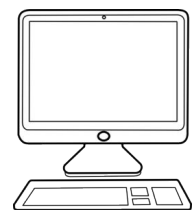
\_\_\_\_\_ Fan



\_\_\_\_\_ Washer



\_\_\_\_\_ Electric  
Toothbrush



\_\_\_\_\_ Computer

# Energy Estimator

## How much energy does your home use?

### Instructions:

1. Put an X in the second column (Items Used by My Family) for every item you use in your home.
2. Then circle the Energy Bucks in the last column for every item you gave an X.
3. Add the circled Energy Bucks to find your total monthly cost of electricity used in your home.

Items Using Electricity	Items Used by my Family	Estimated usage (kWh )	Energy Bucks (monthly)
<b>KITCHEN</b>			
Microwave		20 kWh	\$2
Oven/Stove		60 kWh	\$6
Toaster		10 kWh	\$1
Refrigerator		200 kWh	\$20
Dishwasher		30 kWh	\$3
<b>BATHROOM</b>			
Water heater (for family)		300 kWh	\$30
Hair Dryer		10 kWh	\$1
Hair Straightener/Curling		10 kWh	\$1
<b>OTHER APPLIANCES</b>			
Heating system, fan		90 kWh	\$9
Air Conditioner (central)		850 kWh	\$85
Alarm Clock, Radio or		10 kWh	\$1
TV/VCR/DVD		30 kWh	\$3
Video Game System		20 kWh	\$2
Computer		30 kWh	\$3
<b>LIGHTING</b>			
Lighting, 4-5 rooms		50 kWh	\$5
Lighting, 6-8 rooms		60 kWh	\$6
<b>Total Monthly Energy Bucks</b>			

\*Average cost for electricity used is \$0.10 per kWh; source: energy.gov

\*These numbers are an estimate for you to learn about your home's energy consumption.

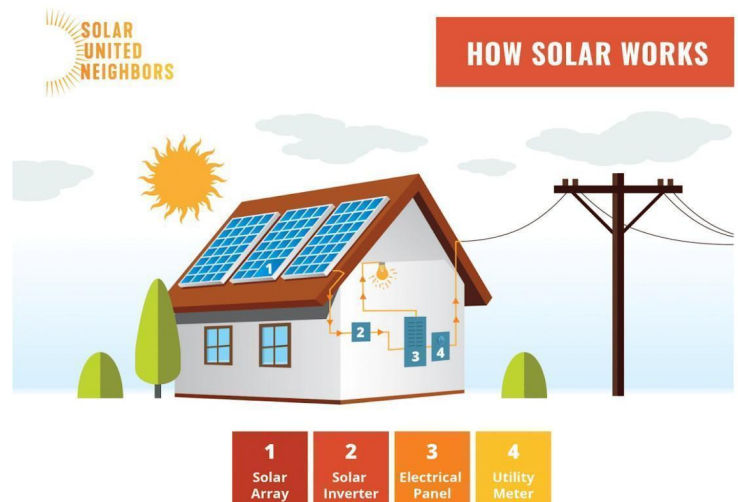
# Solar Energy Word Search

How quickly can you find these solar related words?

E S R R S A F P A I  
N J J E R O O O N P  
I C F R T T L V S A  
H F A F F R E A N N  
S Y W O O S E C R E  
N N O L T M N V A L  
U R X M N J U A N F  
S R E N E R G Y X I  
R N L H R E W O P G  
T Y T I N U M M O C

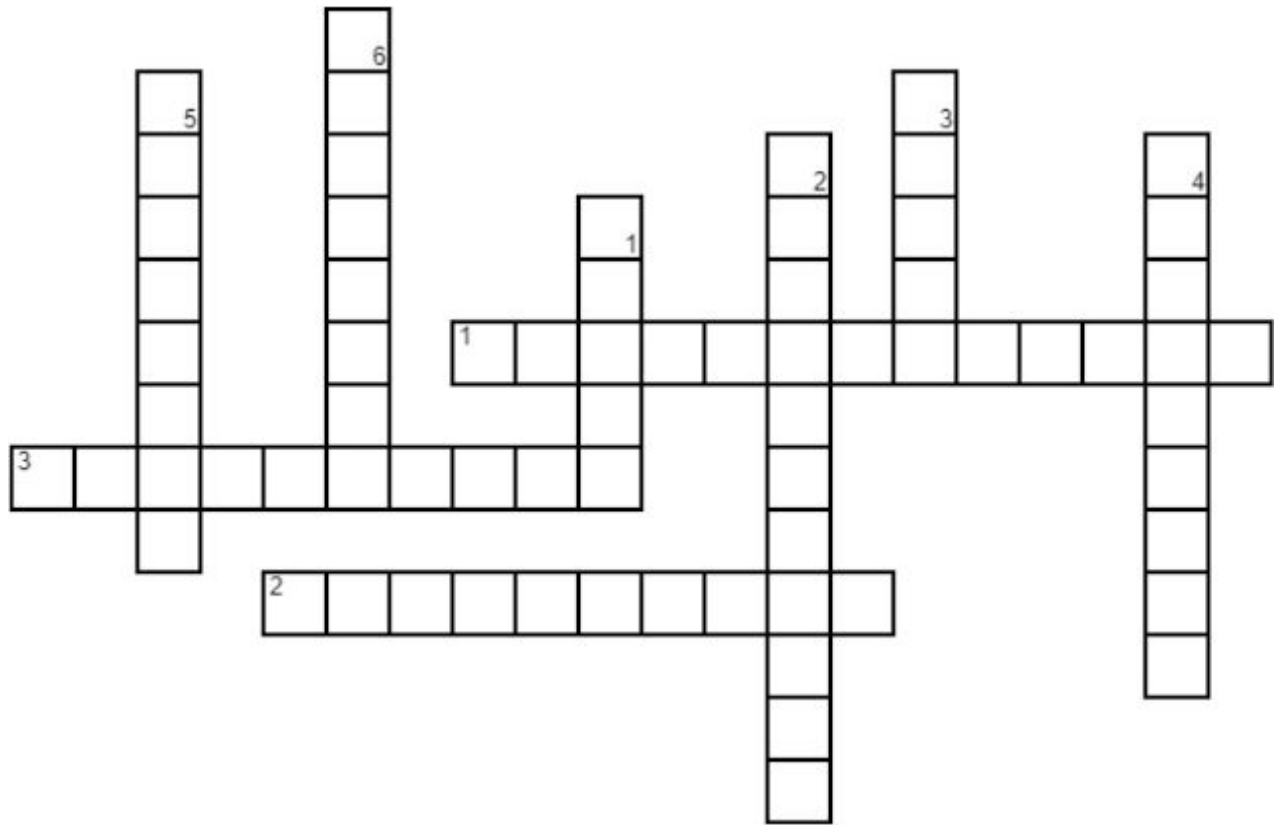
Find these words:

ARRAY	COMMUNITY
ENERGY	INVERTER
INVESTMENT	PANEL
POWER	ROOFTOP
SOLAR	SUNSHINE



# Solar Energy Crossword

How quickly can you find these solar related words?



## ACROSS

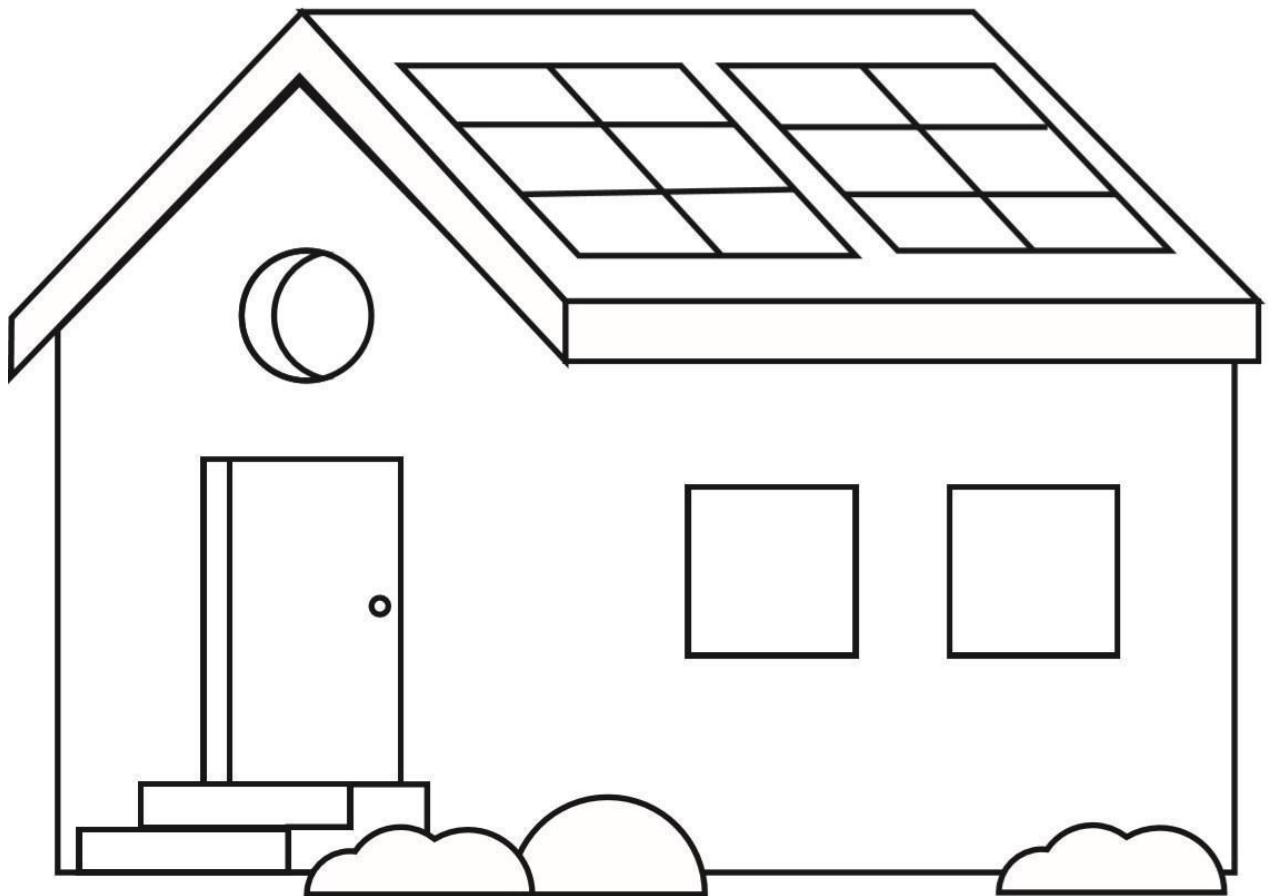
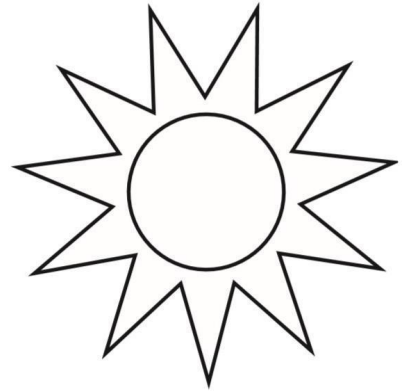
1. Solar Electricity is measured in?
2. The use of Solar Energy to produce electricity allows the user to become less dependent on the world's supplies
3. Solar Energy produces NO and is one of the cleanest sources of energy

## DOWN

1. Solar Energy is captured using Photovoltaic (PV) ?
2. Energy from the sun is called?
3. During what time of the day DOESN'T Solar Energy work?
4. As technology has improved, Solar power costs have?
5. Solar energy is converted into electricity by using?
6. Solar Energy is the and most abundant renewable energy source

# Coloring Page

Show us your artistic side!



# Take Action! What can you do?

You can be a key part in helping your family save energy!

## GOALS:

Set three goals to help your family save energy!

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_

## IDEAS:

- Turn off lights in rooms when people are not in them.
- Turn off and unplug chargers, computers and video consoles when not in use. You can even plug multiple appliances into a power strip so you can turn off more than one device at a time! What can you unplug or turn off to save some energy?
- Close blinds and curtains during summer days to keep your home cooler; open them during winter days to let in warm sunlight.
- Help to fill the dishwasher, washing machine, and dryer and run it when it is a completely full load and during off-peak energy hours.
- Make sure to shut the doors when you come in from outside.
- Lower the heat/air conditioning overnight or when you're not at home for long periods of time.
- Share with your parents what you have learned about energy and Solar United Neighbors. You (and they) can learn more at [solarunitedneighbors.org](http://solarunitedneighbors.org)



# Thank you for learning more about solar energy!

## **Go solar in a co-op!**

Our co-ops organize 50 to 100 neighbors in a group to go solar together. People love the community approach. Our experts support you through each stage of the solar process.

Co-op members leverage bulk-purchasing power to get discounted pricing and a quality installation, while still signing individual contracts that ensure the right system for their home.

## **Don't see an open co-op near you?**

Sign up for our Co-op Waitlist. In doing so, we will reach out and notify you when one has launched in your area so you can officially join.

[www.solarunitedneighbors.org/go-solar](http://www.solarunitedneighbors.org/go-solar)



**Learn more about our  
solar co-ops**

Reach out to us at  
[Helpdesk@SolarUnitedNeighbors.org](mailto:Helpdesk@SolarUnitedNeighbors.org).