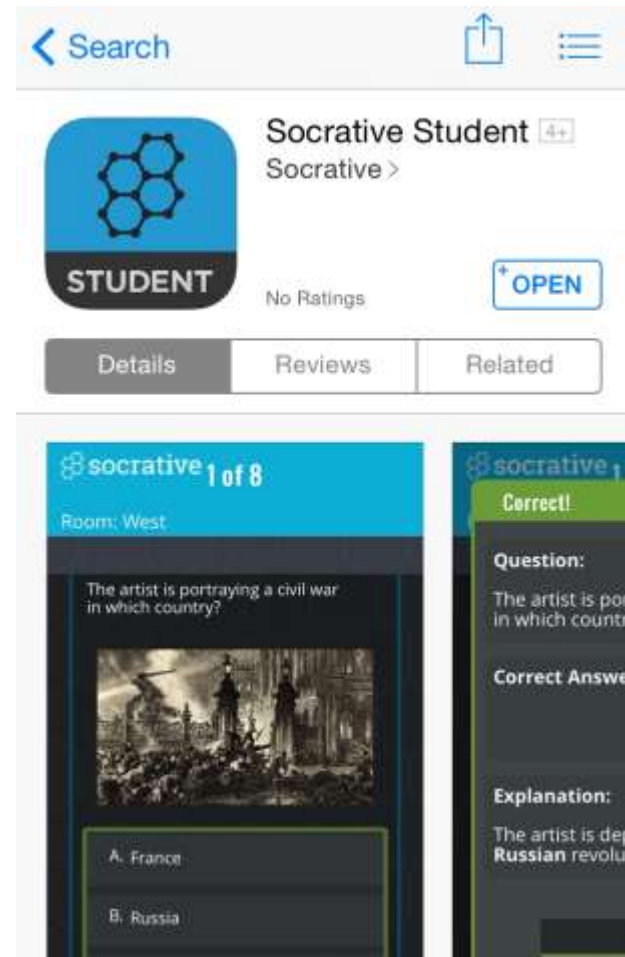
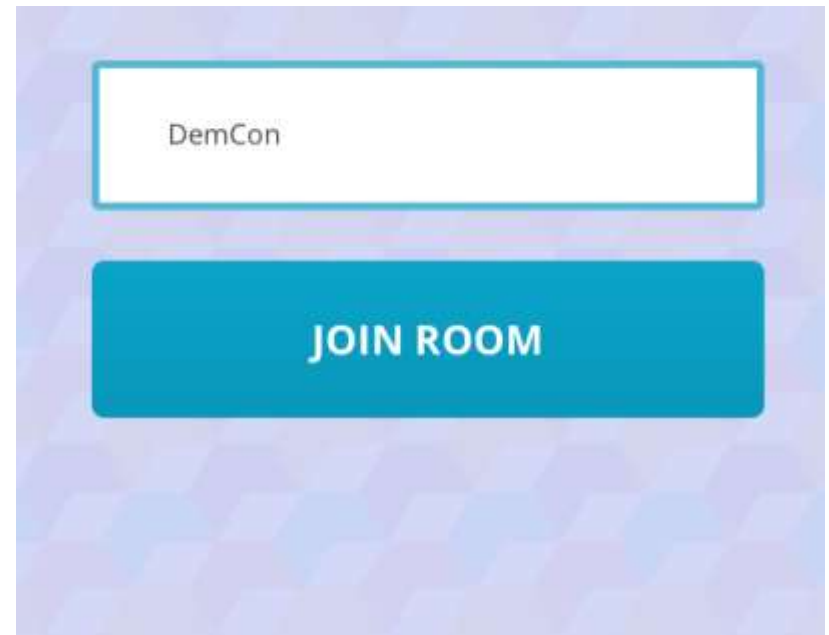


Smartphone & iPad/Tablet Users

- Download the Socrative app through your app store for free by searching “Socrative Student”



- After opening the application, type “DemCon” when prompted for a room name and join the room



Laptop users

- Type <http://b.socrative.com/login/student/> to access the online version of Socrative
- Enter “DemCon” into the room name and join!




The screenshot shows a blue background with the text "Welcome to Socrative!" at the top. Below this is a dark grey rounded rectangle containing a white text input field with the text "DemCon" and a blue "Join Room" button.

Welcome to Socrative!

Enter your teacher's room below

DemCon|

Join Room



Waiting for your teacher to start an activity.

<http://b.socrative.com/teacher/#dashboard>

Single Stream Recycling – What Goes In the Recycling Cart?



Presented for:
2014 RAM/SWANA
Conference



Presentation by:



@Dem_Con

**Finally.....A Crystal Clear, BLACK
AND WHITE, answer.**

It depends.

Depends on What?

- **Processing capabilities of local recycler;**
 - Can they physically recover the materials;
 - Can they economically recover the materials;
 - Does recovery of the material give the processor a competitive advantage;
- **End markets for products;**
 - Do end markets exist? - local and regional end markets may vary;
 - Can products be delivered to end markets given the economic and environmental impacts?
- **Collection methods;**
 - Single stream vs. multi-stream collection;
 - » More products can be collected in mixed single stream bins – 30-50% increase in recycling volume;
 - » Contamination can be an issue in single stream if not managed appropriately.
- **Regulatory policy**
 - Mandatory recycling laws – recently passed mandatory commercial recycling in MN
 - Landfill bans (electronics, yard waste, CA plastic bag ban, etc.)



**So... there is a
lot of
confusion.**

A QUIZ....

“What can go in the Single Stream Recycling Bin?”

<http://b.socrative.com/teacher/#dashboard>

What does this symbol mean on the bottom of the plastic containers?



- A. This container is recyclable
- B. This container is made from recycled product
- C. Lists the manufacturer's production code
- D. Lists the type of resin the container is made from

Frozen food boxes can go in the single stream recycling bin.

True

False

Submit Answer

Pizza delivery boxes can be put in the single stream recycling bin.

True

False

Submit Answer

You should take the tops off of plastic water bottles before recycling them.

True

False

Submit Answer

Plastic grocery bags can be put in the single stream recycling bin.

True

False

Submit Answer

Styrofoam can be put in the single stream recycling bin.

True

False

Submit Answer

Milk cartons and juice boxes can be put in the single stream recycling bin.

True

False

Submit Answer

Clear plastic clam shells can be put in the recycling bin.

True

False

Submit Answer

Extension cords and Christmas lights can go in the single stream recycling bin.

True

False

Submit Answer

Baby diapers go in the single stream recycling bin.

True

False

Submit Answer

Food waste can be put into the recycling bin.

True

False

Submit Answer

Old dishes or glass cookware/bakeware can be put in the recycling bin.

True

False

Submit Answer



gg59580043 www.gograph.com

The Results.....

<http://b.socrative.com/teacher/#dashboard>

Top Five Things **NOT** to Put in Cart:



- **Plastic Bags, Plastic Film, Tarps**

- Wrap around equipment – stops system;
- End up in the trash.

- **Shredded Paper**

- Falls through system – contaminates glass;
- Ends up in the trash.



- **Hoses, Extension Cords, Wire**

- Wraps around the equipment – stops system;
- Ends up in the trash.



- **Loose Bottle Caps**

- Falls through system – contaminates glass;
- Ends up in the trash
- Leave on bottles to be recycled.

- **Drinking Glasses, Mirrors,
Ceramics**

- Contaminate the glass;
- Ends up in the trash.

Plastic Bags – The Problem



- **Wrap around equipment – stop system;**
 - End up in the trash.



Plastic Bags – The Message....

Yes – Recycle These Items!

- Newspaper & Newspaper inserts
- Magazines & Catalogs
- All Junk Mail & Envelopes
- Cardboard (break-down boxes)
- Office & School Paper (all colors)
- Phone Books
- Cereal & Cracker-type boxes
- Brown paper sacks/bags
- Aluminum, Steel & Tin cans
- Glass bottles & Jars
- Plastics: #1 thru #7 – bottles, cups, plastic food containers, tubs, bowls, yogurt cups & margarine/whip cream tubs
- Plastic milk jugs & Paper milk cartons
- Plastic bags (*place all bags in 1 bag inside the cart so they don't blow around*)
- Juice boxes & other paper cartons

Plastics

Recycle

Rinse and leave caps on.

Bottles and jugs:

- Water, soda and juice bottles
- Milk and juice jugs
- Ketchup and salad dressing bottles
- Dishwashing liquid bottles and detergent jugs
- Shampoo, soap and lotion bottles

All plastic bottles, jugs and containers numbered 1 through 7.

Cups and containers:

- Yogurt, pudding and fruit cups
- Disposable cups and bowls
- Margarine, cottage cheese, and other containers

Packaging:

- Clear packaging from toys and electronics

NO: Plastic bags, Styrofoam™ or containers that hold hazardous substances such as motor oil or antifreeze



Plastic Bags – The Message....



These plastic items are **not** recyclable.

However, just because it's on the "no" list, doesn't mean it needs to be trash! Call us for ideas!

- NO motor oil bottles
- NO bottles used for home needle disposal
- NO ♻️ or ♻️ plastic
- NO foam egg cartons or Styrofoam™
- NO disposable cups, plates or utensils
- NO bulky items such as lawn furniture, kiddy pools, etc
- NO toys
- NO plastic bags and film
(call for other recycling options)
- NO containers that held hazardous materials
- NO containers larger than 3 gallons
(e.g., kitty litter buckets)
- NO packaging from toys and electronics
- NO plant or landscaping pots
- NO black plastic including microwave food trays
- NO compostable materials
(often marked with a ♻️)



PLEASE RECYCLE THESE ITEMS

PLASTIC AND METAL

- Clean #1-#7 plastic bottles, tubs and containers, landscape edging, plastic toys (Except Styrofoam™)
- Plastic retail bags. Please consolidate into a single bag
- Glass bottles and jars of any color (please avoid breaking glass; remove and recycle metal lids)
- Aluminum cans
- Aluminum foil (clean only)
- Steel (tin) cans
- Rinsed motor oil bottles
- Empty aerosol cans (no caps)
- Scrap metal, pot and pans with handles removed (household quantities)

ITEMS NOT ACCEPTED

- Motor oil jugs
- Plastic bags
- Shrink wrap
- Flower pots
- Plastic hangers
- Egg cartons
- Pizza boxes
- Food soiled paper
- Window glass
- Mirror or plate glass
- Ceramic or porcelain
- Toys
- Dishes
- Metal car parts
- Styrofoam



Plastic Bags – The Solution

- **Take back to the retailer – high value recyclable;**
- www.plasticfilmrecycling.org



Shredded Paper – The Problem



- **Too small to be captured by recycling equipment;**
- **Too small to sort by hand;**
 - Even if in bags, they often break
- **Contaminates the glass;**
 - Reduces value of recyclable product;
 - End up in the trash.
- **Ends up going in the trash.**

Shredded Paper – The Message....

Please Recycle These Items

Paper

Office paper (including computer, copier, plain fax paper, pastel colored paper (please, NO wrapping paper, neon or other bright paper)

Newspapers and newspaper inserts (NO PLASTIC BAGS)

Magazines and catalogs

Shredded Paper (enclosed in sealed paper bag)

Junk mail (please ~~open your mail~~ to remove any promotional stickers, credit cards, membership cards, or other non-paper items)



3 NO Shredded Paper

Shredded paper is too small to sort. The pieces fall through the cracks of the sorting machines, stick to the belts and end up all over the floor. Please avoid shredding when possible because it destroys the potential for recycling. Compost shredded materials in your curbside compost bin (if you have one) or recycle at your local Recycling Drop-off Center.

Shredded Paper – The Message....

Recycle All of These Items **TOGETHER** in Your Bin



Cardboard & Pizza Boxes
must be flattened to smaller than 3ft x 3ft



**Magazines, Mail,
Phonebooks, Office Paper**
*please put shredded paper
in a closed bag*



Newspaper
with inserts



Most Plastic Food & Beverage Containers
empty, rinse, flatten, put caps or lids back on if you can
no ♻️ or ♻️ plastics

Paper

Recycle

- Mail, office and school papers
- Magazines, newspaper and inserts
- Phone books
- Shredded paper in closed paper bags

Boxes

- Cardboard
- Cereal, cracker, shoe and gift boxes
- Refrigerated food boxes
- Toothpaste, medication and other toiletry boxes

NO: Paper ice cream tubs



Many
MRFs....



Shredded Paper – The Solution

Ideas...



- **Avoid shredding when possible;**
 - Limits recyclability of paper
- **Bring back to local recycling drop off centers;**
 - Already being done at many MRFs and county collection centers;
- **Collection from mobile shredding companies?**
- **Compost shredded material?**
- **More education on paper in closed bags only?**
- **Other?**

Hoses, Extension Cords, etc. – The Problem



- **Wrap around equipment – stop system;**
 - End up in the trash.

Hoses, Extension Cords, etc. – The Solution



Loose Bottle Caps – The Problem



- **Too small for recycling equipment to capture;**
- **Too small to be picked by hand;**
- **Contaminate the glass recycling;**
- **End up in trash.**

Loose Bottle Caps – The Solution

Put the caps back on the bottles.



So.....What Can Be Recycled in your Single Stream Bin?

Aluminum, Tin and Steel

Yes: Cans, Bottles, Lids to Containers



Yes: Foil (with no food residue), Pie Tins (with no food residue)

NO: Products that contain hazardous materials such as paints, paint thinner, automotive fluids, or aerosol cans. Food-soiled aluminum trays, foil, and tins should also be placed in the garbage.

Cartons (Aseptic and Gable Top Containers)



YES: Milk cartons, juice boxes, soup, broth and wine cartons, etc.

NO: Foil juice pouches, flexible packaging, or plastic lined cups.



Glass Food and Beverage Containers

YES: Pasta sauce, pickle, salsa, and mason jars; beer, wine, salad dressing, vegetable and/or olive oil bottles, etc.



NO: Glass that does not contain a product when purchased.

Whole or broken drinking glasses - plates - bowls - Glass vases or decorative glass
Pyrex™ containers - Window glass - Ceramics or pottery - Mirrors

Plastics #1 PET

YES:

- Soft Drink, Water, Beer Bottles;
- Mouthwash Bottles;
- Peanut Butter Containers;
- Salad Dressing bottles;
- Vegetable Oil Containers;
- Ovenable Food Trays, etc.



Plastics #2 HDPE

YES:

- Milk Jugs, Colored and Natural;
- Bleach, Detergent, Cleaner;
- Juice Containers;
- Shampoo Bottles;
- Butter and Yogurt Tubs.



Plastics #3 PVC

YES:

- Window Cleaner;
- Detergent Bottles;
- Shampoo Bottles;
- Cooking Oil Bottles;
- Clear Food Packaging;



Plastics #4 LDPE

YES:

- Squeezable Bottles;



Plastics #5 PP (Polypropylene)

YES:

- Syrup and Ketchup Bottles;
- Caps to Bottles (on bottle);
- Medicine Bottles;
- Yogurt Containers;



Plastics #6 PS (Polystyrene)

YES:

- Narrow Neck Screw Top Bottles;



Plastics #7 Miscellaneous

YES:

- If labeled as compatible with another plastic that is recyclable.



Other Unacceptable Items?

(complete list available at www.dcmrf.com)

#6 PS (Polystyrene) – “Styrofoam”



Packing Blocks



Meat Trays



Foam Sheets



Cups



Packing Peanuts



To-go food containers



Plates

Other Unacceptable



Coat Hangers



Glass Bakeware



Motor Oil Containers



Ceramics & Porcelain



Garden Hoses



Mirrors, Window
Glass
& Auto Glass



Glass not used to
Contain Product

Other Unacceptable



Food Waste



Syringes
&
Needles



Light Bulbs



#7 PLA –
Compostable
Plastics



Medical Waste –
“NO RED BAGS”



Waxed Cardboard



Other Unacceptable



CDs and CD Cases



Sunglasses and other
Hard, brittle, polyacrylic
plastics.



Dirty diapers



Remote Controls
or other electronics
(i.e. cell phones)

Improving Recycling



- **Recyclable Packaging:**
 - Better communication between brand owners and recyclers;
 - Consumer/retailer pressure on brand owners for recyclable packaging (i.e. Walmart – Holiday Coke bottle).
- **Increased recycling efforts**
 - Away from home – commercial & retail;
 - Rural areas.
- **Consistent messaging from brand owners, municipalities, haulers, and recyclers;**
- **Clear and consistent product labeling and messaging:**
 - What is recyclable
 - How best to recycle packaging

Clear and Consistent Labeling

One example:

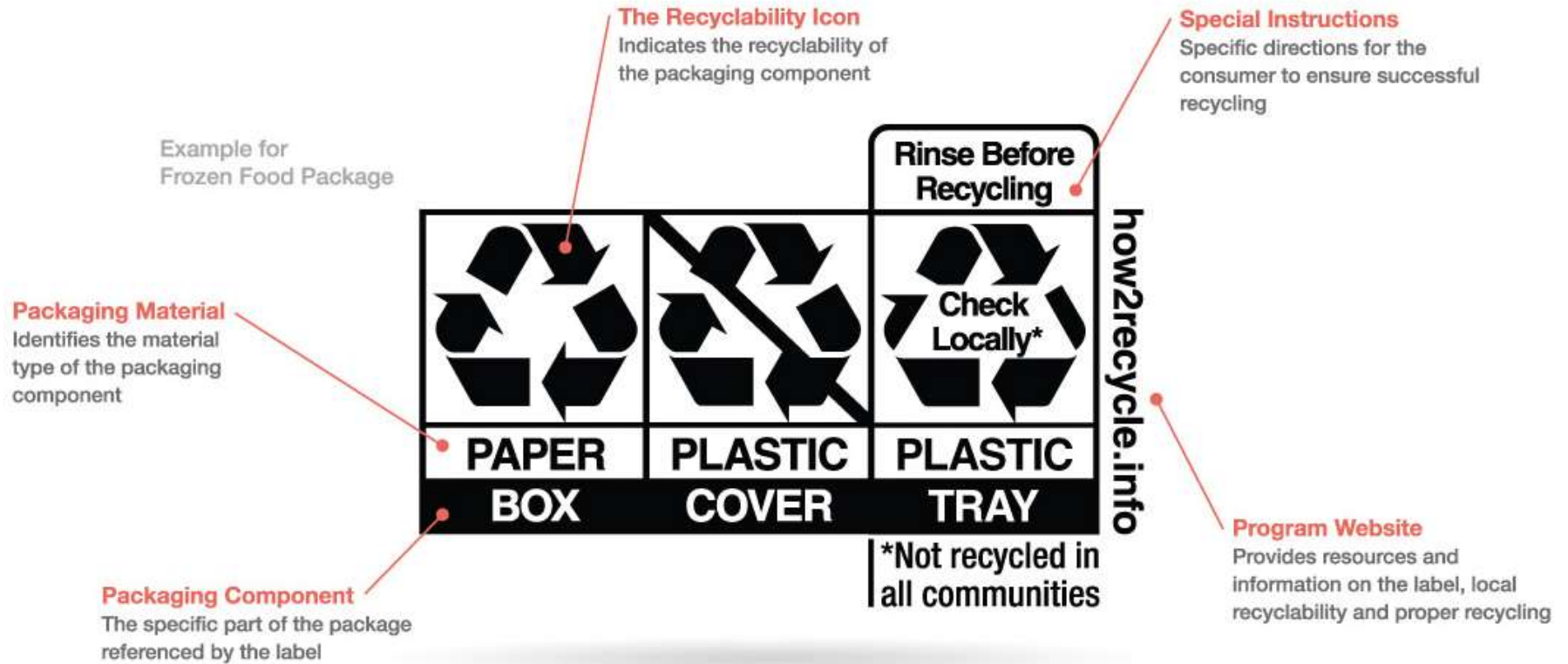


The How2Recycle Label is a voluntary, standardized labeling system that clearly communicates recycling instructions to the public



The Label

The How2Recycle Label is comprised of five pieces of information for each unique packaging component:



Plastic Bags



Recycle if Clean & Dry



**PLASTIC
BAG**

how2recycle.info

Recycle Plastic Film Beyond Bags

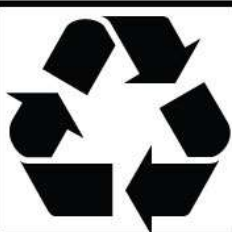




film dropoff directory

Find drop off locations in your area

plasticfilmrecycling.org

Frozen Food Packages

		
PAPER	PLASTIC	PLASTIC
CARTON	COVER	TRAY

Rinse Before Recycling

how2recycle.info

*Not recycled in all communities





	% Daily Value*
Total Fat 0g	0%
Sodium 0g	0%
Total Fat 26%	26%
Total Fat 2%	2%
Total Fat 2%	2%

0 19722 51070 4

Rinse & Insert Lid



METAL CAN

 **American Heart Association**
Meets American Heart Association criteria for saturated fat and cholesterol for healthy people over age 2.
While many factors affect heart disease, diet low in saturated fat and cholesterol may reduce the risk of the disease.

KIRKLAND
Signature
Every Kirkland Signature product is guaranteed to meet or exceed the quality standards of the leading national brands. If you're not completely satisfied, your money will be returned.

how2recycle.info



#7 OTHER

#2 - HDPE COMPATIBLE

Future Trends and Recycling Challenges:

- **Moving from glass to plastic;**
 - Lighter weight, more versatile, more economical.
- **Increased use of flexible packaging;**
 - 3.5% Annual increase in flexible packaging;
 - Flexible film packaging (multi-layer, multi-resin)
 - » Not currently recyclable
 - » Offers other “up-stream” benefits – source reduction, shelf life, labeling, transportation, etc.
 - Move toward “smart packaging” (temp, expiration date, etc.)
- **Light-weighting of packaging;**
- **Movement toward “Smart Packaging”;**
 - Temperature, product expiration, interactive packaging
- **Increased pressure on recyclability of packaging;**
 - Walmart only stocking recyclable packaging;
 - Coca Cola Sustainable Packaging initiative;
 - Removal or revised specs. on sleeve labels;
 - Dunkin Donuts proposed move to PP cups from PS cups.



Strangest Thing Ever Seen on Recycling Line?



 **Dam Con**
CORPORATION

www.dcmrf.com

Bill Keegan 612-845-5075

billkeegan@dem-con.com

www.dem-con.com



@Dem_Con