

## The 3 R's of Recycling

- Reduce consumption
- Reuse when possible
- Recycle if it can't be repaired



# What is scrap metal?

- Anything made of metal that is broken and cannot be repaired.

When you find scrap metal:

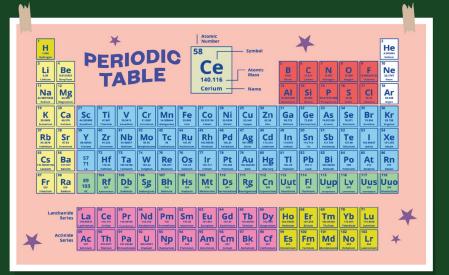
- Bring it to a scrapyard
- Earn money recycling metal
- Never throw metal in the garbage!
- Scrapyards have really cool machines like this material handler!

## Periodic Table of Elements



Ellie & Gallium the Unicorn

ELLIE PRESENTS: THE PERIODIC TABLE OF ELEMENTS!!





## Safety Equipment

Metal can be dangerous, please wear the following:

- Gloves
- Hard hat
- Ear plugs
- Safety glasses
- Steel toe boots
- Reflective vest





### Ferrous

- Heavy metal that sticks to a magnet
- Contains Iron (FE)
- Rust occurs when iron is exposed to moisture
- Try searching for ferrous metal with a magnet





### Cast Iron

Cast iron is always in a shape and it sticks to a magnet, try finding:

- Storm drains & manhole covers
- BBQ grills
- Skillets

Other items made of cast iron:

- Drainage pipes





Steel

HEAVY METAL ELEMENTARY

#### Steel is strong metal that rusts, try finding:

- Fence

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FE

- Flag pole
- Swingset
- School bus

### Non-Ferrous

- Lightweight metal that doesn't stick to a magnet and does not rust.
- Really strong and flexible.
- More valuable than ferrous metals.



### Aluminum

#### Aluminum is silver/gray, try finding:

- A soda can

#### Other items made of aluminum:

- Airplane
- Ipads
- Bicycles



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#### Brass is yellow, try finding:

- Saxophone
- Drum Cymbals
- Lamps

#### Other items made of brass:

- Door knobs
- Locks & Keys







Copper is orange, try finding:

- Pipes under the sink
- Pennies

#### Uses:

- Plumbing
- Electricity



Lead

Lead is dark gray, try finding:

- Wheel weights on a car
- Fishing weights in your Dad's tackle box
- Did you know that scuba divers wear lead to help them sink to the bottom of the ocean?







### Stainless Steel

Stainless Steel is shiny, try finding:

- Refrigerator
- Stove
- Forks, spoons and knives
- Pots & pans





### Wires & Cords

Wires & cords have copper inside, try finding:

- Ipad charger
- TV cord
- Christmas lights

Electricity is conducted by copper inside the wires and cords.



Christmas lights



#### Zinc is light gray metal, try finding:

- Toy cars
- Boat parts

### Zinc is used to prevent corrosion from saltwater.





Speed boat

Quiz

- 1. What color is copper?
- 2. What metal is an airplane made of?
- 3. What musical instrument is made of brass?
- 4. What metal is inside a phone charger?
- 5. What is the periodic element for Zinc?



### Answers

- 1. What color is copper? Orange
- 2. What metal is an airplane made of? Aluminum
- 3. What musical instrument is made of brass? Saxophone
- 4. What metal is inside a phone charger? Copper
- 5. What is the periodic element for Zinc? Zn





Mr. Ferrous Magglio

### Learn More



RecyclingIsLikeMagic.com