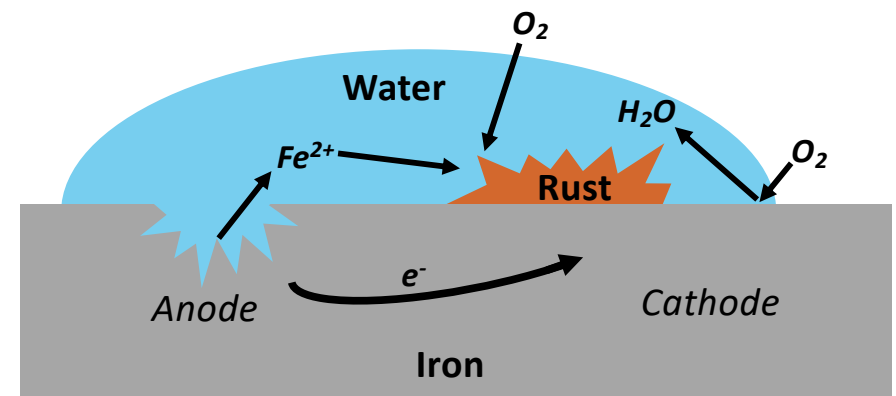


What is Corrosion?



- Corrosion is a surface **chemical reaction** that naturally occurs over time when metals are exposed to air or water
- Corrosion often causes a decrease in strength and appearance
- **Rusting** of iron is one of the most common forms of corrosion



Corrosion comes in many forms, and changes over time!



Corrosion Protection



- Steel corrosion can be avoided through **galvanizing**, or coating with zinc.
- This creates a distinct shiny, granular coloring often seen on outdoor surfaces like telephone poles and railings.



- Aluminum corrosion can be avoided through **anodizing**, which creates a thick oxide surface layer.
- Anodized surfaces are often dyed bright colors like these carabiners.



- Corrosion in saltwater is often avoided through **sacrificial anodes** that “take” all of the corrosion away from the surface

Can non-metals corrode?



Wine Glass Discoloration

- **Yes!** Glass, plastic, rubber, and other materials may not **corrode** the same way as metal, but they can all **degrade** over time due to environmental exposure.



Tire Rubber Cracking



Headlight Clouding