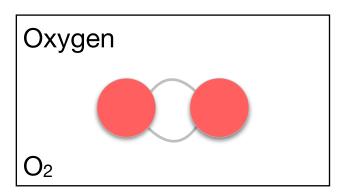
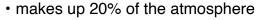
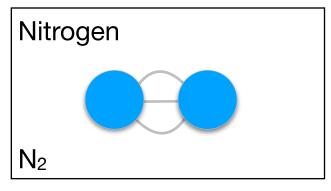


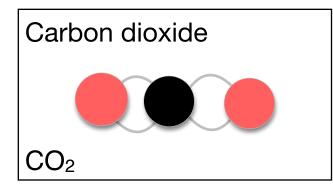
- most abundant chemical in the universe
- reactive and highly flammable
- important for acid/base reactions as an H atom





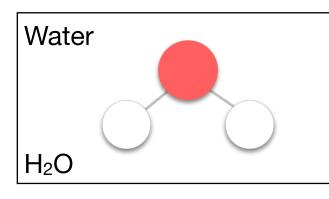
- most abundant element in Earth's crust
- made by plants
- we and other living things need it to survive
- very reactive



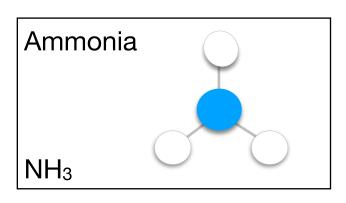


- most abundant gas in the atmosphere
- very stable (with three bonds)
- part of proteins in living things
- bacteria fix nitrogen from the air into food chains

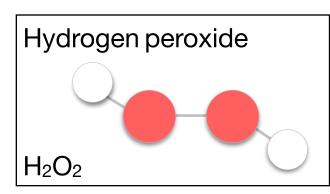
- we exhale it
- made when organic things burn in oxygen, releasing energy
- used by plants to make sugars (food)
- dissolved in drinks to make sodas
- used to make cakes and bread rise
- traps heat in the atmosphere a greenhouse gas

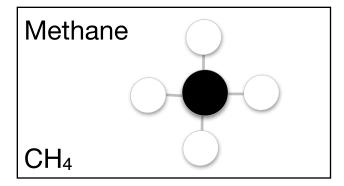


- abundant on Earth in all three states of matter
- essential for life
- ice floats on liquid water (as it is less dense) so aquatic life survives under ice
- many things dissolve in water it transports nutrients around the body and carries minerals around the earth



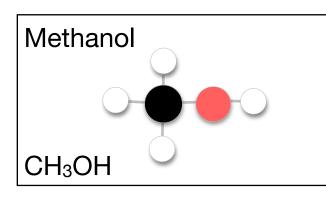
- has a distinctive smell
- used as a cleaner (in window cleaner)
- important in the chemical industry for making fertilizers, plastics and pharmaceuticals
- bacteria make it from nitrogen, and convert it to other nitrogen compounds that are used by living things



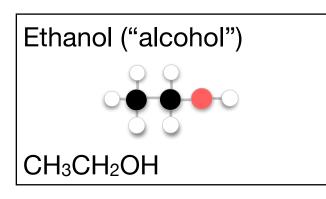


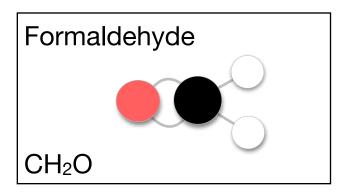
- powerful oxidizing agent reacts with organic compounds
- the active ingredient in oxygen bleach (non-chlorine bleach)

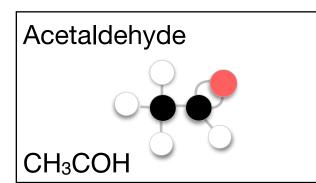
- fossil fuel
- flammable gas used in cooking and heating
- burns with a blue flame in oxygen, or yellow flame with less oxygen
- other fuels (ethane, propane, butane and gasoline) are longer molecules with additional CH₂ groups



- flammable
- a poison the body breaks it down into toxins (formic acid and formaldehyde)



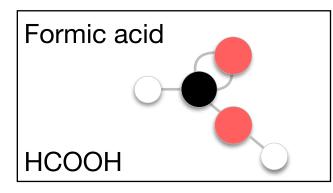




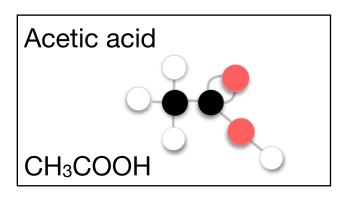
- flammable
- in wine, beer and other alcoholic drinks
- interacts with nerve cells in the brain
- naturally made in our bodies by gut bacteria

- sterilizes and preserves organic things by linking protein chains together
- in wood smoke the active chemical in the preservation of smoked foods

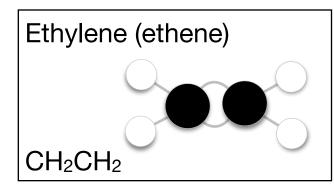
- in the smell of ripe fruit
- made in our body from ethanol

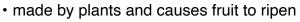


- in the venom of stinging ants and caterpillars
- · damages proteins in the body

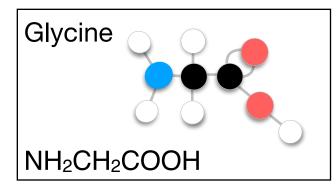


- main component of vinegar, and responsible for its smell
- has a sour taste
- made by bacteria, including the kind used in making sourdough bread

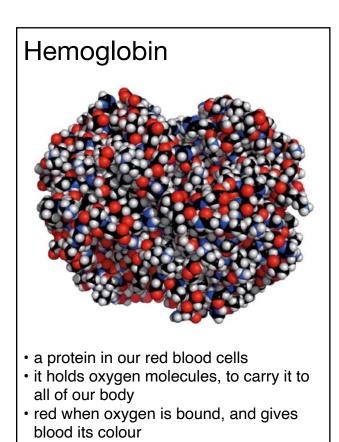




 a chain of ethylene molecules form polyethylene plastic



 one of the amino acids, which string together to make proteins in living things



Polyethylene (plastic) (pl

