

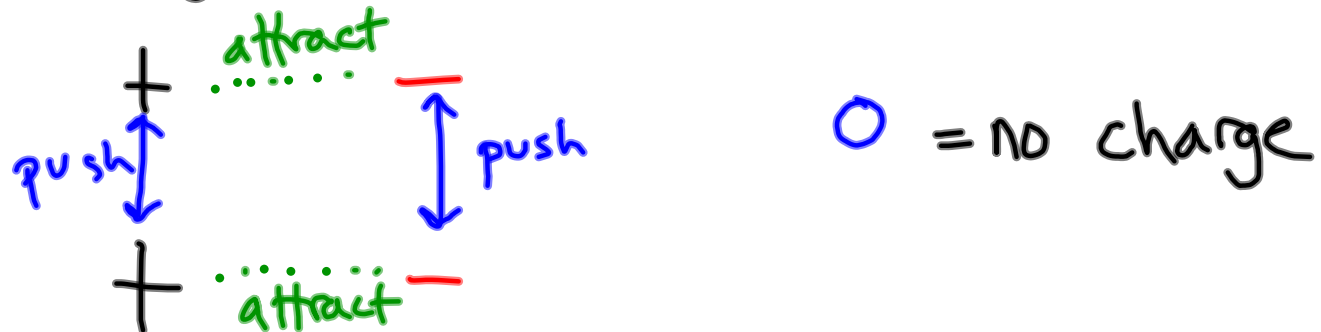
Why did some of the ingredients in
potion lab mix with some of the liquids,
but not all?

SOLVENT: A liquid into which something else
is mixed → water, oil,
rubbing alc.

←
SOLUTE: Something that is mixed into
a solvent → ingredients

SOLUTION: What you get when a solute
dissolves into a solvent

The main reason some things form solutions and other things don't has to do with electromagnetic fields (charges!)

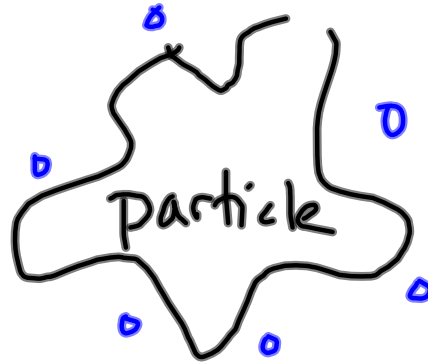


non-polar: a particle that has no charge

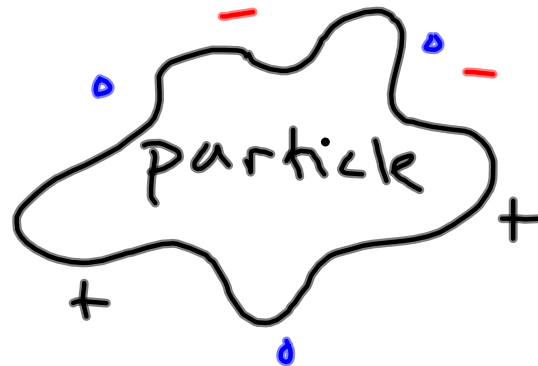
polar: can have a partial charge or several partial charges in different places

ionic: a charged particle (charge is the same all around the particle)

non-polar:



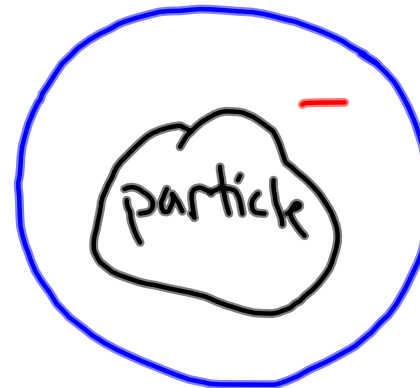
polar:



ion:
ionic



or



Oil: non-polar

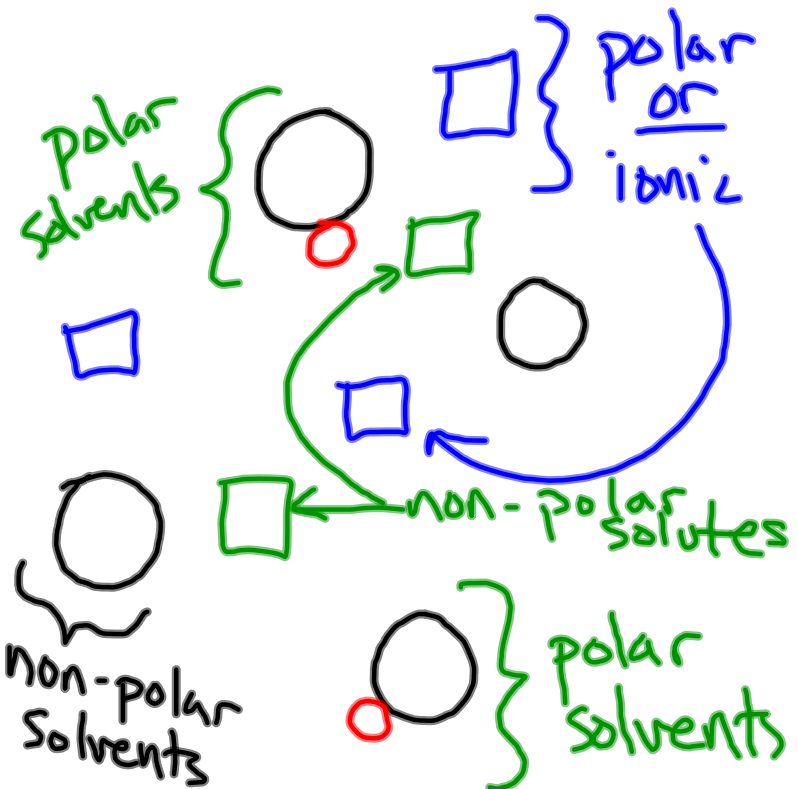
↓
Won't dissolve polar/ionic
Will dissolve non-polar

Water: polar +

↓
will dissolve
polar or ionic
Solute

will not
dissolve
non-polar

↑
polar
rubbing
alcohol:



□ = student
○ = pizza
□ = hungry teachers