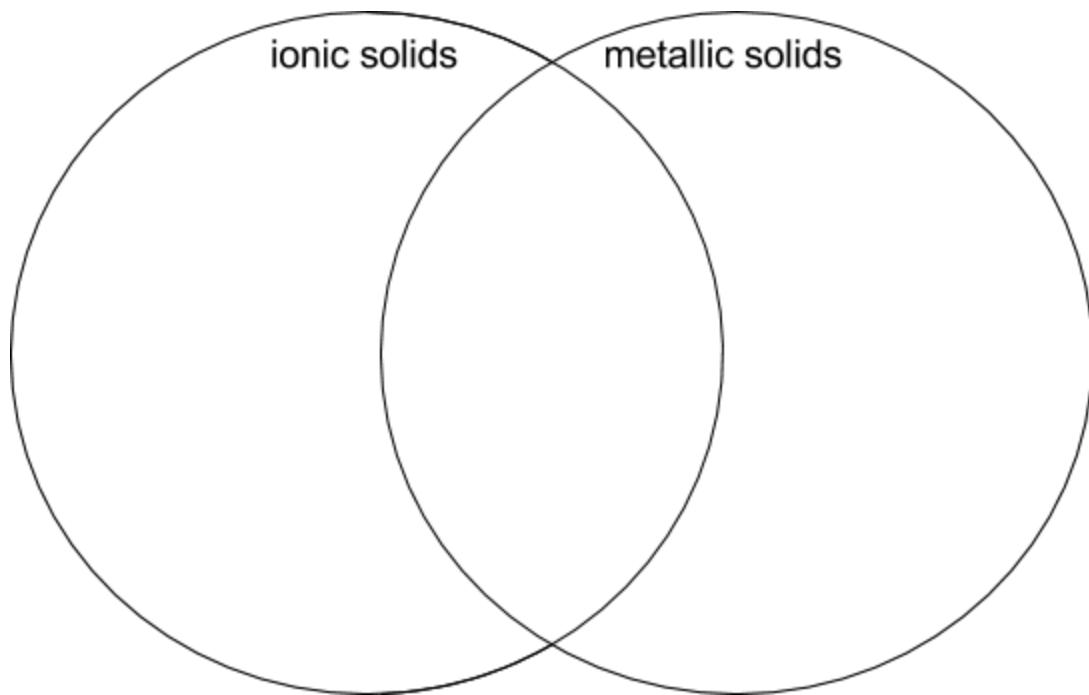
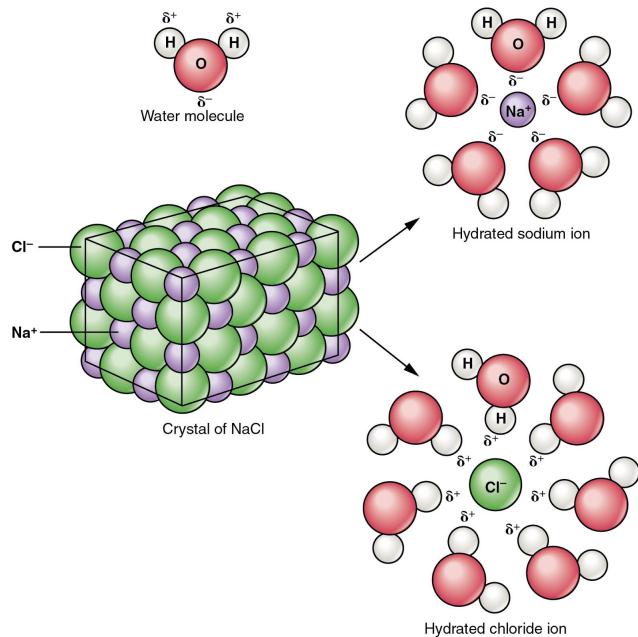


4. Compare and contrast the following physical characteristics of ionic and metallic solids:
malleable/ductile or brittle, conductivity as a solid, conductivity in water



5. Challenge: Based on the diagrams below, explain why ionic solid does not conduct electricity, but the dissolved ionic salt does.



Retrieved from https://upload.wikimedia.org/wikipedia/commons/d/d9/Sodium_chloride_dissolution.jpg.

Retrieved from https://upload.wikimedia.org/wikipedia/commons/3/32/214_Dissociation_of_Sodium_Chloride_in_Water-01.jpg.