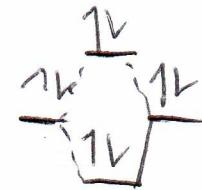
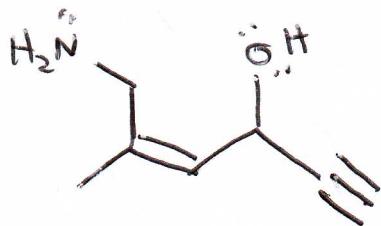
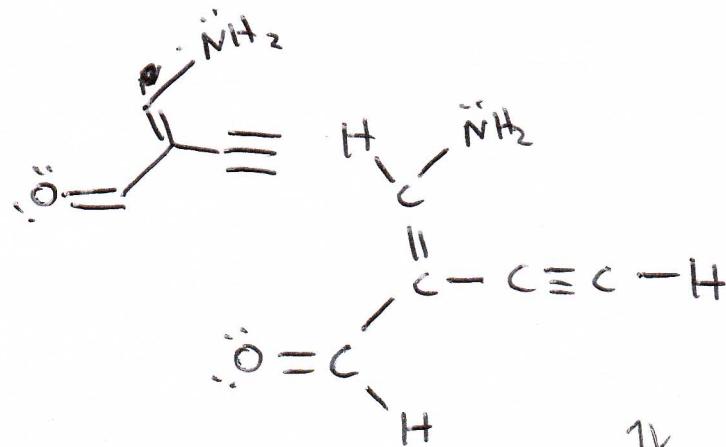
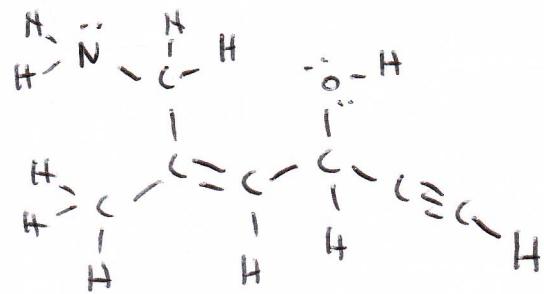


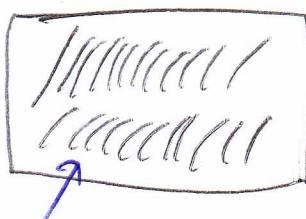
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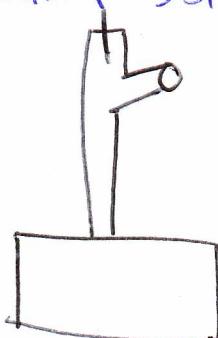
Solids

- crystalline - has a periodic, ordered geometric pattern
- amorphous - "without shape" - no regular crystal structure



When thermal energy (internal KE) exceeds the ability of the IMF to hold molecules together, a phase change occurs.

an idealized crystalline solid



In this experiment, if a solid is heated to rapidly when measuring the melting point, the M_p, p_i will appear too low, since not enough time was given for the thermometer to reach thermal equilibrium, which is a state in which all molecules have roughly the same energy.



An impurity will interfere with the IMF between molecules in the crystal, causing lower IMF. Less energy is therefore needed to overcome the IMF, so the M_p, p_i is lower.