



**Figure 1: Entropy.** Assume we confine the molecules of a gas to the corner of a box (A). As soon as we remove the barrier confining them to that corner, the gas molecules escape in every direction and fill the whole box (B). In other words, the probability that they disperse in every direction is very high (high entropy), while the probability that the molecules stay together in the corner of the box after removing the confining barrier is very low (low entropy).