



Solid

Liquid

Gas

FIGURE 10.1 Intermolecular forces create structure in liquids and solids. If a single atom is removed from a snapshot of the atomic arrangement in a solid (a), it is easy to figure out exactly where to put it back in. For a liquid (b), the choices are limited. If a single atom is removed from a gas (c), no clue remains to tell where it came from.

from David W. Oxtoby, H. P. Gillis, Alan Campion. *Principles of Modern Chemistry*, 6th ed., Thomson Brooks/Cole: Belmont, CA, 2008.