

Section 5.1 The Particle Model of Matter Worksheet

1. Complete the following table by writing "yes" or "no" in each space.

State	Fixed Mass?	Fixed Volume?	Fixed Shape?
SOLID			
LIQUID			
GAS			

2. Use diagrams and words to explain what happens to the particles of matter in each of the following situations. Are the particles moving faster or slower? Are they getting farther apart or closer together?

a) Butter is warmed on a stove.

Particles are moving _____ and getting _____.

b) Water vapour cools and forms raindrops.

Particles are moving _____ and getting _____.

c) Liquid wax hardens.

Particles are moving _____ and getting _____.

d) Water boils.

Particles are moving _____ and getting _____.

e) Frost forms on a window.

Particles are moving _____ and getting _____.