Name:	Class:	Date given:
		Date due in:

Physical Changes of Matter

1. Jodie is making a drink of diluted squash. She starts with 200ml of water. Circle the most likely volume of the drink after Jodie mixes the concentrated squash into the water. [1]

100ml	120ml	200ml	220ml
1000ml	1200ml	2000ml	2200ml

2a. Sort these reactions into chemical or physical changes by drawing a line to the correct heading. [4]

dissolving sugar baking a cake boiling water burning toast

physical change **chemical change**

frying an egg melting chocolate freezing milk popping corn

2b. How can you tell if a reaction is a chemical or a physical change? [1]

_____

3a. Complete diagram 2 below to show the arrangement of shaded particles after diffusion. [1]

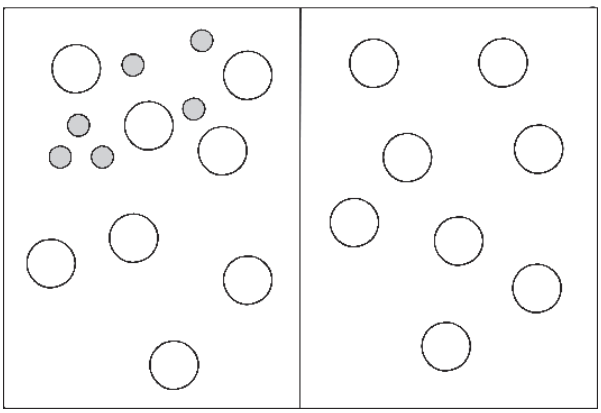


Diagram 1

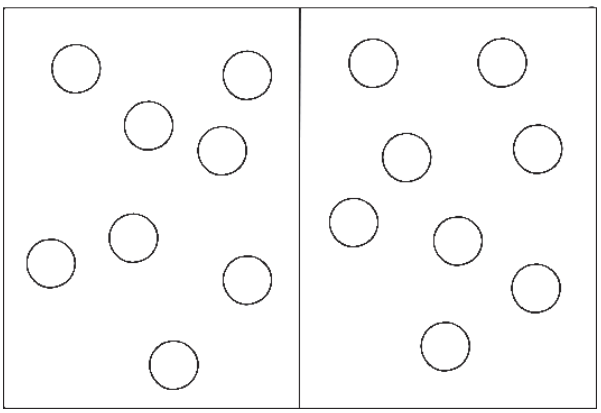


Diagram 2

3b. Complete the sentences below choosing only the most appropriate words. [3]

Diffusion is the movement of particles from an area of _____ to an area of

_____, until they reach _____ .

high concentration	**high temperature**	**energy**
low concentration	**low temperature**	**equilibrium**

Learning Outcomes (tick if achieved)

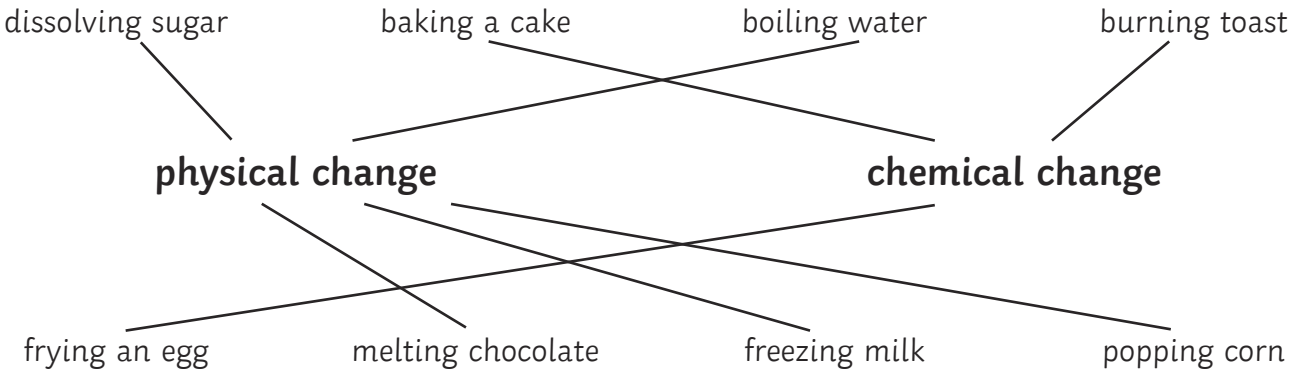
Q1	I understand conservation of mass	
Q2	I can distinguish chemical and physical changes	
Q3	I can describe Brownian motion	
Q4	I can describe diffusion	

Physical Changes of Matter **Answers**

1. Jodie is making a drink of diluted squash. She starts with 200ml of water. Circle the most likely volume of the drink after Jodie mixes the concentrated squash into the water. [1]

100ml	120ml	200ml	(220ml)
1000ml	1200ml	2000ml	2200ml

2a. Sort these reactions into chemical or physical changes by drawing a line to the correct heading. [4]



2b. How can you tell if a reaction is a chemical or a physical change? [1]

new substance / product is made

3a. Complete diagram 2 below to show the arrangement of shaded particles after diffusion. [1]

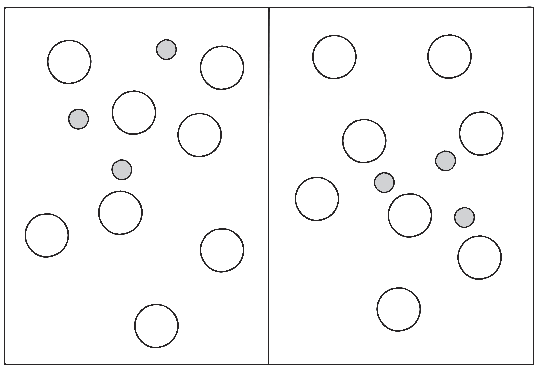


Diagram 2

3b. Complete the sentences below choosing only the most appropriate words. [3]

Diffusion is the movement of particles from an area of **high concentration** to an area of **low concentration**, until they reach **equilibrium**.