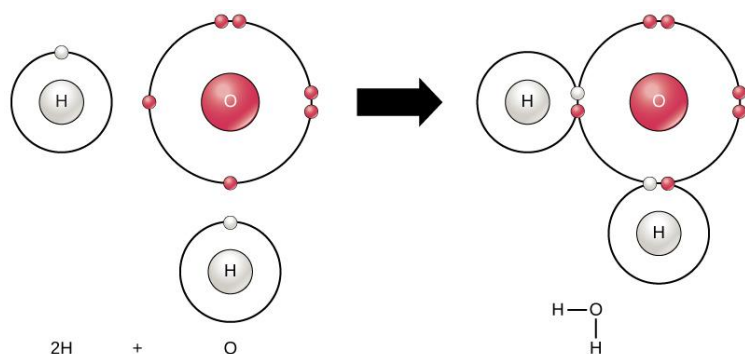


KINETIC MOLECULAR THEORY (KMT)

Goal • To understand and describe the kinetic molecular theory


Last day we made atoms – which are super tiny. Atoms make up molecules. See these diagrams.

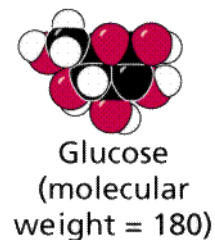
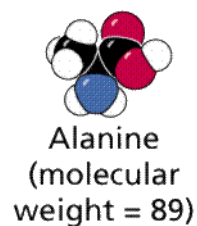
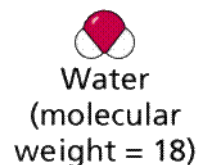


14  Nitrogen (N)

16  Oxygen (O)

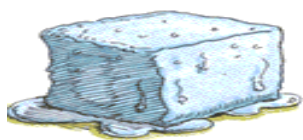
12  Carbon (C)

1  Hydrogen (H)



We are now going to investigate how atoms/molecules behave in the different states of matter.

What are the 3 states of matter?



1. Let's look at how molecules respond to heat.

Flask	What happens to the volume of the liquid? Which was faster? Why?
#1 - red	
#2 - blue	

Temperature	What happens to the balloon?
Hot plate	
Ice bath	

DATE:

NAME:

Questions:

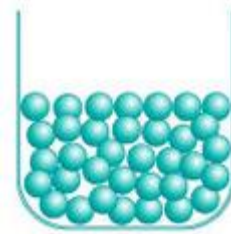
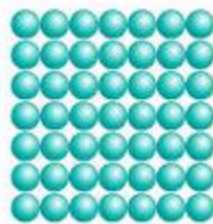
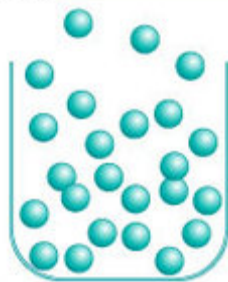
Why did the volume increase?

Why did the balloon expand and contract?

2. Let's look at a model for the Kinetic Molecular Theory – The Chaos Machine

Speed	What does it look like?
Slow	
Medium	
Fast	

Label the following as solid, liquid or gas and describe what is happening with the particles.



State of matter			
Describe the particles			