

Solids Liquids and Gases

E	E	E	N	W	G	Y	E	I	V	B	M	L	E	U
D	I	S	S	O	L	V	I	N	G	M	E	X	P	F
I	P	A	R	T	I	C	L	E	S	P	R	E	A	D
X	G	W	P	N	S	S	G	C	T	X	C	W	H	I
O	A	Q	A	D	P	M	N	N	B	A	U	Q	S	L
I	X	V	V	T	E	I	O	A	I	F	R	U	L	O
D	P	M	P	V	E	N	I	T	P	T	Y	B	F	S
N	O	C	Q	O	D	R	S	S	A	X	A	N	I	W
O	J	M	F	L	I	Q	U	I	D	M	E	E	T	V
B	Z	B	Z	U	W	E	F	D	T	G	A	G	H	D
R	C	P	L	M	N	I	F	S	O	Y	V	Y	V	Q
A	H	W	C	E	X	L	I	R	P	V	K	X	L	X
C	N	S	R	E	O	N	D	H	E	U	Q	O	V	J
L	L	G	D	W	Z	Y	R	P	A	U	M	E	A	T
M	Y	M	B	S	H	O	V	Y	Q	A	G	F	Q	A

- 1) **ATOMS**
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- 1) **A5** are tiny particles that are the basic building blocks of all the 100+ different elements
- 2) **C6 D7** is a colourless gas made of two types of atom
- 3) **D7** increases when the number of atoms in a cubic centimetre of volume increases
- 4) **D9** is when atoms spread out. Eg when a perfume spreads out in a room
- 5) **D10** is when the atoms of a solid spread out in between the atoms of a liquid
- 6) When atoms are given more energy they move faster and the **D8** between them gets bigger
- 7) Atoms can pass on **E6** when they bump into each other
- 8) **E9** is when the distance between the atoms increases - usually when they are given more energy by heating.
- 9) The atoms in a solid are **F5**. They can only vibrate. They are not free to move around like gases and liquids.
- 10) The atoms of gases and liquids can **F4** past each other. Solids cannot **F4**.
- 11) In a **G3** the atoms move around very fast and have a large distance between them
- 12) Atoms can be given more energy to move faster by **H7** them up
- 13) **H8** is a colourless gas made of one type of atom. It is the simplest type of atom in the Universe.
- 14) In a **L6** the atoms move around freely but remain in contact with each other.
- 15) **M7** is a silvery metal that is a liquid at room temperature
- 16) **O6** is a colourless gas made of one type of atom.
- 17) **P9** may be atoms or molecules. They are tiny units of matter.
- 18) Gases and liquids will always take the **S5** of the container they are in
- 19) In a **S5** the atoms are not free to move around. They touch each other.
- 20) The **S5** of particles in a gas is higher than in a liquid.
- 21) In diffusion and dissolving, particles **S6** out in all directions
- 22) The particles of a solid **V7**. They wobble quickly in fixed positions
- 23) The **V6** of solids, liquids and gases can increase when they are heated as the distance between the atoms increases.
- 24) Made from two types of atoms **W5** is a liquid at room temperature.