

Find the answers to the questions in the grid below.

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

1. What is a material called that is made of several different substances, e.g. air? (7)
2. What is the process of changing from a solid to a liquid? (7)
3. What motion suggests the presence of molecules in a fluid? (8)
4. What must a gas do to spread through another gas? (7)
5. What is the process of changing from a liquid to a solid? (8)
6. What does a solid do when it changes state to a gas? (8)
7. What is the process of changing from a gas to a liquid? (12)
8. If a substance can dissolve in a liquid (solvent) what is it said to be? (7)
9. What do salts do in water? (8)
10. What is the process of changing from a liquid to a gas? (11)
11. The smallest parts of any material, mixture or substance. (9)
12. Another name for the conditions in which matter can exist. (5)
13. What is constant in solids but not in fluids? (5)
14. What is the mass of matter in a given volume called? (7)
15. What do we call the energy stored in materials? (8)
16. What process can be used to separate a liquid from an insoluble solid? (10)
17. The smallest part of copper that is still copper. (4)
18. The smallest part of water that is still water. (8)
19. What is another word for change? (10)
20. What is the term for the mass of a solute dissolved in a given volume of solvent? (13)

## Answers

- |     |              |     |               |
|-----|--------------|-----|---------------|
| 1.  | mixture      | 11. | particles     |
| 2.  | melting      | 12. | state         |
| 3.  | Brownian     | 13. | shape         |
| 4.  | diffuse      | 14. | density       |
| 5.  | freezing     | 15. | internal      |
| 6.  | sublimes     | 16. | filtration    |
| 7.  | condensation | 17. | atom          |
| 8.  | soluble      | 18. | molecule      |
| 9.  | dissolve     | 19. | transition    |
| 10. | evaporation  | 20. | concentration |

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