

Frozen! – Solutions

B. The correct answers are:

1. The human brain can calculate as fast as a quantum computer. This is **false**.
2. A "normal" computer calculates different possibilities one after the other and then compares them. A quantum computer can do certain calculations simultaneously. This is **true**.
3. The temperature of absolute zero is **0 K = -273,15 °C**.
4. The molecules of food coloring from our participatory experiment on Monday migrate faster in warm water than in cold water. This is because **molecules in hot water move faster than in cold water**. Therefore, the paint is distributed faster in hot water!
5. Special question: The units of a quantum computer are called **qubits**.

C. The substance that serves as “magical glue“ is **salt**.

D. You find the hidden words here:

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