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