## **HOMEWORK – lesson 6**

## 4. Read the text and put the missing phrases back in the right gaps

- A. good conductors of electricity and malleable
- B. combinations of elements can create the products
- C. semiconductor and computer chip
- D. classify elements by properties

## How to read and interpret the periodic table

The periodic table helps chemists 1....D... and similarities. One way to sort the elements is to divide them into three categories – metals, nonmetals and metalloids.

Most of the elements on the periodic table are considered metals. They share similar characteristics – most are solid, shiny, 2...A...... Nonmetals have properties opposite of the metals – they are brittle, not flexible and not strong conductors of heat or electricity. Some nonmetals are liquids, some are gases. Metalloids, or semimetals, are considered a cross between metals and nonmetals. Metalloids have unique conductivity properties, which make them useful in the 3...C.... industries.

The periodic table can help us better understand chemical elements and their relationship to one another – how they react with each other, and how 4 ... **B**..., materials and technologies that shape our lives.

https://www.chemicalsafetyfacts.org/celebrating-150-years-of-the-periodic-table-of-elements/

## 6. Find the 15 chemical elements.

If you cross all of them, the remaining letters, if read from left to right, form a word. Which word is it?

	Α	В	С	D	Ε	F	G	Н	1
1	С	Α	R	В	0	Ν	ı	Т	Ε
2	Α	L	U	М	ı	N	I	U	М
3	L	Ε	В	S	L	Ε	М	М	Ε
4	С	K	ı	N	0	Ε	N	N	Т
5	1	С	D	R	R	D	Α	Ε	L
6	כ	_	_	C	0	Z	_	Ν	C
7	М	Ν	J	R	Α	Ν		J	М
8	S	R	М	0	S	Μ	_	כ	Μ
9	Υ	Т	Т	Ε	R	В		כ	Μ

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/'æl yə'mın i əm/ aluminium
/ˈɒz mi əm/
              osmium
/'mɜr kyə ri/
             mercury
/'kæl si əm/
             calcium
/ru'bid i əm/ rubidium
/'ni ɒn/
            neon
/'kar bən/
            carbon
/'soʊ di əm/ sodium
/ı'tɜr bi əm/ ytterbium
/'aɪ ərn/
            iron
/tɪn/
            tin
/'nɪk əl/
            nickel
/lɛd/
            lead
/yʊ'reɪ ni əm/ uranium
/zɪŋk/
             zinc
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7. Explore The Royal Society of Chemistry's interactive periodic table: images, history, alchemy, podcasts, trends. Identify the elements described in 1 - 6 below. <a href="https://www.rsc.org/periodic-table/">https://www.rsc.org/periodic-table/</a>						
·	air. <mark>iron</mark> word for 'sun'. <mark>helium</mark>					
8. Synonyms						
Silicon is a nonmetallic element that is inexpensive b     a. rare	ecause it is so <i>abundant</i> in minerals and rocks. b. <mark>plentiful</mark>					
<ol> <li>When exposed to air and moisture, iron will corrode.</li> <li>a. rust</li> </ol>	b. shine					
3. After the fire, the police investigated the cause of the a. burning	e <i>combustion</i> . b. excitement					
<ol> <li>Gasoline should be stored carefully because it is <i>flam</i></li> <li>a. fireproof</li> </ol>	nmable. b. <mark>able to catch fire easily</mark>					
5. Heat can <i>convert</i> a solid to a liquid. a. condense	b. <mark>change</mark>					
<ol> <li>A catalyst speeds up a chemical reaction.</li> <li>a. chemical agent</li> </ol>	b. forest animal					
7. The temperature on a Fahrenheit fever thermor a. extends	meter <i>ranges</i> from 94° to 108°. b. contracts					
8. The <i>volume</i> of air in a room can be measured in a. quality	cubic feet. b. <mark>quantity</mark>					
9. Ten <i>minus</i> four equals six. a. less	b. plus					
<ul><li>10. Water contains hydrogen and oxygen in a <i>ratio</i></li><li>a. proportion</li></ul>	of two to one. b. size					
11. The price of gasoline was <i>quadrupled</i> , and ther a. multiplied by four	re were fears it would go even higher. b. divided by four					