

Chemistry 11th grade The end of second Term

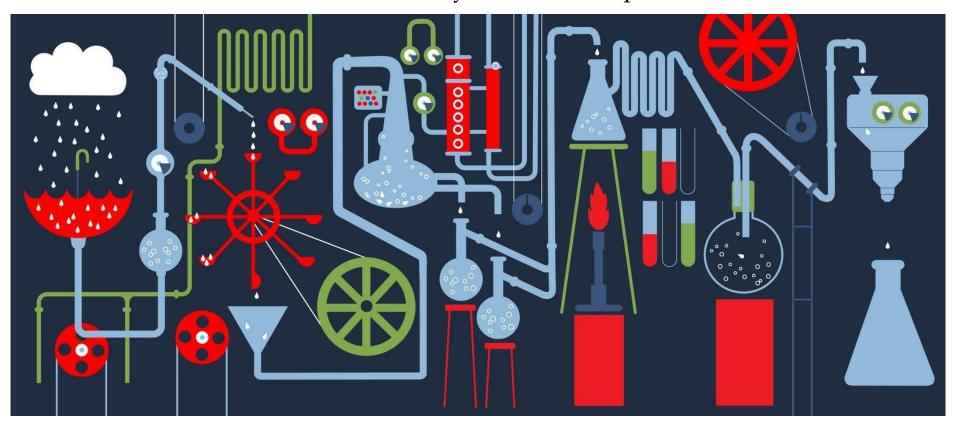
Maria Smirnova Smirnova@sch2101.ru Vk.com/masha2101 Let's make chemistry a little bit complicated!

Химия — просто

Chemistry



Let's make chemistry a little bit complicated!



Most know



We should know some special words (terms):

Chemistry – химия

Metals - металлы

Nonmetal - неметаллы

Chemical elements – химические элементы

Chemical reaction – химическая реакция

Today's Theme is ...



... chemistry in Englishи and chemical elements in English.





... chemistry in Englishи and chemical elements in English.





... chemistry in Englishи and chemical elements in English.

Let's try to guess what is the name of elements in English.



Gold



... chemistry in Englishи and chemical elements in English.





... chemistry in Englishи and chemical elements in English.

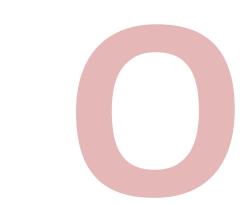
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Iron



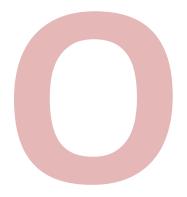
... chemistry in Englishи and chemical elements in English.





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Oxygen



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Silver



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Sulfur

Reactions

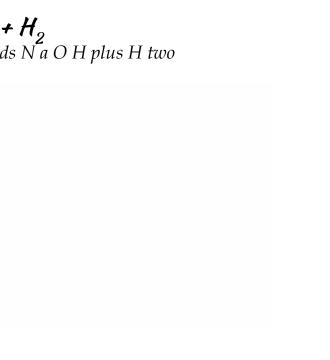


... chemistry in Englishи and chemical elements in English.

But how can I pronounce a chemical reaction?

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Au	Gold	Na + H ₂ O = NaOH + Sodium plus h two o yields	
Fe	Iron		
0	Oxygen		
Ag	Silver		

Sulfur



Reactions

 $Na + H_0O = NaOH + H_0$



... chemistry in Englishи and chemical elements in English.

But how can I pronounce a chemical reaction?

Au	Gold	Sodium plus h two o yields N a O H plus H two	
Fe	Iron	Let's balance this one:	
0	Oxygen	We have one sodium, two hydrogens and oneoxygen in left part.And still one sodium, one oxygen, but 3hydrogens.	
Ag	Silver		
S	Sulfur	So, the coefficients are: $2Na + 2H_2O = 2NaOH + H_2$	

Problems

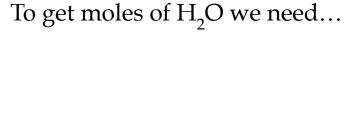


Let's try to solve chemical problem in English.

Problem: Convert 20 grams of
$$H_2O$$
 to moles.

Task To grams of Π_2 O to moles.

Task
$$m_{h2o} = 20 g$$
 ... $v - ?$



Problems

by molar mass:

To get moles of H₂O we need divide mass (grams)

Moral mass of water is 18 grams per mole.

 $v = m_{h20}/18 = 20/18 = 10/9 = 1.1 \text{ mol}$



Let's try to solve chemical problem in English.

Problem: Convert 20 grams of H_2O to moles.

v - ?

= 20 g

Problems

Let's try to solve chemical problem in English.

Problem: Convert 20 grams of H_2O to moles.

To get moles of H₂O we need divide mass (grams) by molar mass: Moral mass of water is 18 grams per mole.



 $v = m_{h20}/18 = 20/18 = 10/9 = 1.1 \text{ mol}$

Feedback



