METHODS AND THEIR IMPORTANCE IN THE FIELD OF CHEMISTRY TRAINING

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ABSTRACT

Currently, when there are wide opportunities in the field of education, the education of students should become one of the main goals of the mentor. Therefore, the comprehensive education of future teachers is of great importance. The following should be taken into account when improving chemistry teaching methods. The methodology of teaching chemistry should be improved by the following types of classes.



"Summarization" (Rezyume) method

KEYWORDS: Summarization, Comprehensive Education, Information, Strengthens.

INTRODUCTION

This method is aimed at studying complex, diverse, as far as possible, problematic topics. The essence of the method lies in the fact that at the same time the same information is provided on various sectors of the topic, each of which is discussed in separate aspects. The method of "Summarization" can be used to strengthen, analyze and compare knowledge on the topic in the form of work in individual and double groups, subgroups.

Biological significance of halogens								
Fluorine		Chlorine		Bromine		Iodine		
Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	
Conclusion								

Introducing the «Summation» method to chemistry

Categorization Table

Assign to groups. Name the isolated acids and divide them into categories.

Acids	Monobasic	Bibasic	Tripartite	Without oxygen	Oxygenated
HNO ₂					
H ₃ PO ₄					
H_2SO_4					
H_2SO_3					
H ₂ CO3					
H_2S					
H ₃ BO ₃					
HF					
H ₃ AsO ₃					
HCl					
H ₃ AsO ₄					
HNO ₃					

Term Chain Method

Thanks to this method, you can check how much readers have mastered the basic concepts and terms of topics. The recipients of education will develop skills of resourcefulness, efficiency and independent thinking.

Questions 1. What is Anion? - Anion charged ion

- 2. What is ion? Ion charged particle
- 3. What is a particle? An electron, a neutron, a proton are particles that form atoms.

4. How is the atom created? - The atom is a positively charged nucleus and a magnetically charged electron moving around it.

5. What happens if the atoms come together? - 2 or 3 atoms are combined and form a molecule.

6. What is a molecule? - The smallest part of the molecule that retains the properties of the substance.

7. What are the most important classes of complex substances? - The most important classes of complex substances are oxides, acids, bases, salts.

8. What ions are formed during the dissociation of salts? Upon dissociation, the salts are separated into a cation and an anion.

Solve the Puzzle.

Solving puzzles for students after the topics teaches them to think creatively and independently. "The most, the most, the most..." puzzle.

-	the heaviest metal	
-	the most powerful metal	
-	the most plastic metal	
-	the most expensive metal	
-	the lightest metal	
-	the most common metal on earth	
-	the most easily liquefied metal	
-	the hardest metal	

The game "Chemistry on Svetaphors."

This game usually creates a test question. 3 answers are written. The names of the answers are set to red, yellow, green cells. Specifies the response cell, which students call "tug." (Everything the teacher knows "will write the answers to a single-color cell, let's just say, a green cell.) Then, without reading the test question, the answer, the teacher will be able to quickly and closed evaluate students.







Keys Task:

Description of Case

We know that hydrogen is displaced from iron acids:

$$Fe + 2HCl = FeCl_2 + H_2$$

$$Fe + H_2SO_4 = FeSO_4 + H_2$$

Nitrate from iron forms NH₄NO₃ with acid NO, NO₂, N₂, N₂O or highly liquefied.

 $Fe + 4HNO_3 = Fe(NO_3)_3 + NO + 2H_2O$

When boiled with concentrated sulfuric acid, the formation of SO₂ is observed:

 $2Fe + 6H_2SO_4 = Fe_2(SO_4)_3 + 3SO_2 + 6H_2O$

100% concentrated sulfuric acid passivates iron. High-concentration nitrate acid also passivates iron.

Problematic Issues:

- 1. Why is no hydrogen released when exposed to iron nitrate acid?
- 2. Why do different nitric compounds differ when iron is applied to nitrate acid?
- 3. Why does 100% concentrated sulfuric acid passivate iron?

In conclusion, the rational use of different types of lessons and different methods in the process of learning chemistry positively affects the effectiveness of learning. This, in turn, will lead to the future generation becoming educated, wise, thinking.

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