



INTEGRATED TEACHING IN CHEMISTRY CLASSES

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Abstract: *this article describes the use of integration in chemistry education, the origin of the word integration, the integration of chemistry with other disciplines, the opinions of scientists about integration from ancient times, and its historical origin.*

Key words: *integration, separate system, international system, interdisciplinarity, integrity, consistency.*

The term "integration" comes from the Latin word *integratio* - service, whole - whole. A change in the general definition of integration is formed: integration is the uniting of a number of countries, forming a unified whole, but preserving their identity, forming a single trade-economic zone.

The well-known Russian scientist V. G. Baranovsky implemented "the state of connecting separate parts into a whole, the structure, the process leading to such a state" by implementing integration. Integration in the international service system implies the creation of a certain integrity of a systemic nature. Done, the concept of "integrity" is narrower than the concept of "consistency". According to V. G. Baranovsky, the participation of states in one or another sub-system of interstate relations does not indicate mutual integration of any kind.

In the investigations of didactic scientists, the genetic nature of the method with practical activity is highlighted. In the investigations of N.N.Skatkin, I.Y.Lerner, Alexyuk Y.K.Babansky, the definition of secondary types of signs related to educational methods is given. They have proved that it is a style-expression, content and method of education. Hegel shows style in philosophy as a form of movement of content. During the educational process, the teacher and students together with him express their knowledge, abilities and skills in the form of deduction, induction, synthesis, generalization, concretization, and comparison through various logical systems. All logical processes form the internal aspect of style, which is inextricably linked with content. The educational process in the upper classes is distinguished by the variety of methods, styles and forms used.





The connection of chemistry with literature is that it connects with literature science by providing students with chemical riddles, chemical texts, definitions of terms in a poetic way. Explaining to students in this way increases their interest in chemistry. The lesson will not be boring. Pupils' ability to think increases through riddles.

1. What is the name of the natural silicate product written by M. Lomonosov in his poem?

2. What is the name of the substance that Antoine Saint-Exupery wrote "You are life"?

3. Dante Alighieri mistakenly thought that hell smells, but what is actually an odorless substance?

We know that we cannot imagine chemistry and biology separately. The reason is that all living things have chemical processes in them. Chemical processes occur even in the human body. That's why we drink water, eat, take vitamins.

1. What is the gas that causes the students in the room to fall asleep and have lunch when the doors and windows are closed in the classroom?

2. When people feel insomnia, nervousness, and fatigue, what substance is lacking in the human body?

3. Starch is converted into this substance under the action of enzymes in the oral cavity. What is it? (glucose)

4. For some reason, if you bite an apple, the bite will turn black. (The reason is that the apple contains iron. The iron in the bitten area reacts with the oxygen in the air to form an oxide film. That's why it turns black)

1. Give the name of the chemical substance commonly used in the household, called drinking soda.

3. It is impossible to store alkaline and acidic solution in this metal container. The metal used in the interpretation of the phrase, if the antenna does not come out of the phone, if you hold this spoon in your hand, the antenna will come out. What metal is it about? (Aluminum).

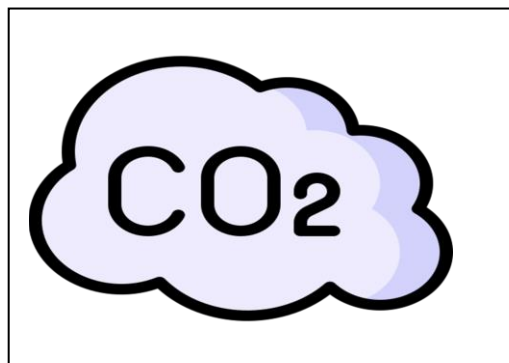
4. Name the fruit and the acid in it that is used to remove all stains from the pen or vegetable oil in general.

5. Express this situation with chemical reactions. What is the importance of this reaction in life? (combustion reaction of a match).

Chemistry and environment

1. Air polluting metal in the exhaust gas from the car. (lead)

2. What are the substances that destroy the ozone layer? (substances containing chlorine and fluorine compounds - freons)





3. Currently, silver is not considered as valuable as it was in the 19th century. Because it darkens quickly in the air. What is the reason for this? (the concentration of hydrogen sulfide in the air has increased compared to the 19th century)

4. What do ecologists say about the accumulation of carbon dioxide in the atmosphere?(heat effect)

An environmental problem caused by the accumulation of sulfur and nitrogen oxides in the atmosphere (acid rain)

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