



periment; Practical: diagnostic (conversation with pupils and teachers; questionnaire);

Diagnostic (conversations with pupils and teachers, forms); observative (observation for educational process at school, systematization of pedagogical experience); experimental (organization and construction of pedagogical experiment).

The novelty of the research lies in the working out, theoretical and experimental analyzing of the methods of using didactic games in the process of practical skills formation on Mathematics.

The practical significance of the investigation is evident, for using didactic games in the educational process assists in activation of educational and cognitive activity during practical skills formation on Mathematics; the results of pupil's activity can be used as a didactic maintenance of educational process; the materials and conclusions of the research can be useful for teachers of schools, students and for further investigations of our topic.

The main position of the paper was checked in the period from 2009 to 2011. Experimental verification of the efficacy was made during two stages: theoretical and practical. The data of comparative investigation means some advantages of experimental methods over the traditional ones. Quantitative results of experiment approve that the higher level of scientific achievements is seen in experimental classes in comparison with the control one. It is explained by using our methods of education and proves their efficiency.

The practical usage of the methods is adjusted with age peculiarities of pupils. It allows taking into account their individual abilities, assists in improvement the quality of mathematical preparation, activation of educational process, motivation of learning Mathematics.

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Аліна Курилко

DECORATIVE POLYPODIOPHYTA

Health is a functional state of the human body that provides life, a rather high level of physical and mental well-being along with healthy generation reproduction.



Health depends on many influences on the human body, including climatic, social, industrial, residential, psychological factors, lifestyle and others. Leaving conditions play an important role for our health. That role refers not only in an environmentally safe location of the dwelling (distance from enterprises with harmful emissions from road traffic, etc.). Quality of building materials, exterior and interior are of the same importance. The last issue has a noteworthy impact not only on mental state of a human being (feeling of comfort and aesthetic pleasure), but also the physical parameters of the internal environment room (humidity, air purity, content of impurities in it, harmful radiation from electrical appliances, etc.). All above mentioned discovers an environmental function of plants using for decorative purpose.

Plants become an integral part of human surroundings, a few thousand years BC (the first information about creating collections of plants that have decorative properties, dating from the mid 4th century BC). The role of plants for maintain comfortable living conditions in modern houses and apartments, it is hardly possible to overestimate. In particular, plants in a dank room have a positive impact on humidity, as, for example, prefabricated buildings made of reinforced concrete, this figure is usually lower than normal, and hygrophilous plants put in special trays with water, which provides increased evaporation as with the plant itself, and the liquid surface. Many species of flora grown indoors, have bactericidal properties (emit phytoncides). Despite the fact that plants give a major source of oxygen, namely the negative ions, which dramatically lacking in each home with TV or computer. Plants successfully neutralize some toxic substances. There are many opinions about the impact of plants that grow near us, on health, mental condition, can add confidence, innervate or calm. The role of these “neighbours” particularly stressed in the ancient teachings of feng shui. Each plant may affect the people in a different way, and it can carry both benefits and harms so sometimes (allergic diseases) [1, p. 98; 3, p. 199].

Among the wide variety of species and of plants stratum *Polypodiophyta* plays an important role, gaining attention by its exotic form and aesthetics. *Polypodiophyta* contains a group of high spore plants, widespread in tropical and subtropical zones of the earth, but they are also typical representatives of temperate latitudes, especially common in forest ecotypes. Among them are mainly herbaceous forms, but not excluding lianas and woody forms [2, p. 34].



Today *Polypodiophyta*, are quite common indoor ornamental plants and plants of open ground. They were very popular in the 19th century, when greenhouses and glass collection boxes cultivated *Polypodiophyta*. However, only some *Polypodiophyta* grown as an ordinary house plants, because the combustion products of gas and smoke from coal which then heated room, extremely negative effect on these plants. Centralized heating again allowed recovering interest to representatives of *Polypodiophyta*, but not all species and varieties of it well-tolerated and dry warm air of modern homes [3, p. 125].

Among the representatives of *Polypodiophyta* in floriculture is *Adiantum* – small plants that have thin petioles and tender sheet plate. They need high humidity, warm and shaded conditions, making them grow better in a terrarium or in a shaded greenhouse. The majority – *A. raddianum*, *A. tenerum farleyense*, *A. hispidulum*, *A. cappiluveneris* – are undemanding to grow. *Blechnum* a pronounced trunk that develops in adult plants, the head can reach one meter in diameter. Widely distributed species *B. gibbum*, *B. brazilense* – can be found only in very large collections.

Asplenium prefers shade and moist air. In a culture grown two quite different from each other species *A. nidus*, xiphoid which leaves covered with scales with rhizome produces something similar to “nest” (hence named as “the fern-bird nest”). Another common type of culture in cirrus is strongly dissected sheet plate on adult leaves of buds developing young plants. Most common *A. bulbiferum*, smaller with curved leaves.

Nephrolepis is the most popular among the modern florists while *N. cordifolia* was popular in the 19 century, has a direct leaf length 35–60 cm, *N. exaltata* is considered to be the large one. *N. exaltata bostoniensis* (derived form over 100 years ago in Boston, USA), has appealing leaves. This form has gained distribution and later withdrew its many varieties, such as, for example, (*rooseveltii*, *maassii*, *scottii*, *Fluffy Ruffles*, *whitmanii*, *smithii*).

Also quite common for species growing or decorative intention are representatives of genera *Pellaea*, *Phyllitis*, *Platynerium*, *Polystichum*, *Polypodium*, *Pteris* [3, p. 246].

Thus, decorative indoor plants in general and *Polypodiophyta* stratum in particular, create at home or at workspace, not only aesthetic pleasure but also improve the indoors microclimate (raise humidity and deodorize air).

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I-CONCEPTION AS THE OPTIMUM WAY OUT OF CONFLICT SITUATIONS

The history of human development from ancient times to nowadays witnesses that conflicts have always existed and they are going to happen.

As a rule, a conflict situation is connected with psychological peculiarities of an individual, the interests and needs involved and also with the motives of an individual activity. The basis of many conflicts is an incapability of individual to achieve the goal, to meet his/her demands and interests. There are many ways to resolve conflicts, but in our opinion, “I-conception” is a very interesting way out of conflict situations.

“I-conception” has proposed by the American psychologist Karl R. Rogers. It is formed in the process of cooperation of individual and the environment and it is an integral mechanism of self-regulation of his/her behavior. “I-conception” defines a relatively constant, move or less conscious system of an individual’s representation on the basis of which he/she establishes relationships with other people. This conception includes an individual representation, interests, abilities, orientations, self-respect, self-confidence.

The practical content of the conception implies that all our relationships with the environment are established on the basis of our “I”, our “I-image”. The psychological mechanisms of the “I-image” protection are put into individual consciousness. They are necessary for maintaining an individual’s psychological balance and psychological comfort. At the same time, these mechanisms may complicate the acceptance of critical reprimands, since they break the integrity of a created representation.

Each individual is capable of understanding his/her own “I-image” and psychological peculiarities, and capable of defining tactics of his/her behaviour in a situation that may cause a conflict and not coming into conflict. And when an individual finds himself/herself in conflict, their reaction will be different: a passive reaction, a clash, self-establishment. In order to express one’s own feelings, to declare