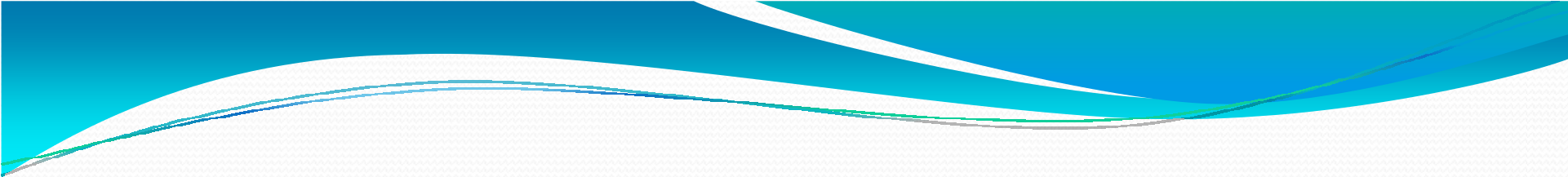




Teaching children with visual impairment to experiment

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«Experimentation is an activity in which a scientifically delivered experience is conducted, observation of the phenomenon under study in precisely taken into account conditions that allow monitoring the course of the phenomenon and reproducing it repeatedly when these conditions are repeated»

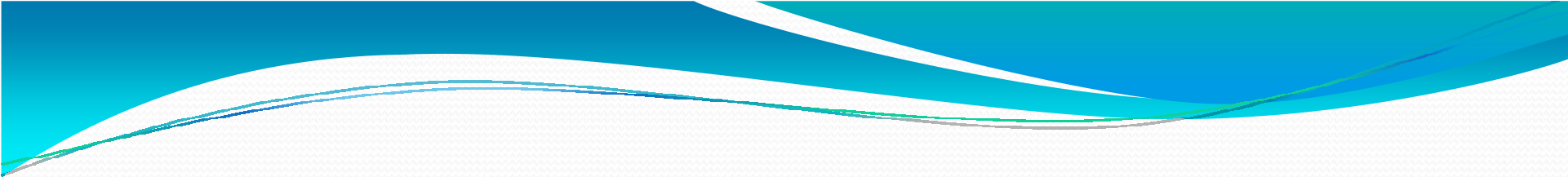
(M.A. Povalyaeva)

«Experimentation is a special form of the child's search activity»

(S.A. Kozlova, T.A. Kulikova)

«Experimentation is one of the forms of organization of children's activity, on the one hand, and one of the types of cognitive activity of children, on the other»

(N.N. Poddyakov)



Experimentation is a method of practical mastering of reality, aimed at creating conditions in which objects most clearly reveal their essence, hidden in ordinary situations.

Exponential functions

- Inclusion of children with visual impairments in mental, modeling and transforming actions;
- The formation of the ability to see the diversity of the world in a system of relationships;
- Enrichment of visual aids (standards, symbols, conditional substitutes);
- Expanding the prospects for the development of search and cognitive activities, supporting children's initiative, ingenuity, inquisitiveness, criticality, independence.

Types of experimentation

- Search (getting new information about familiar objects);
- Productive (creation of new objects);
- Prognostic (wording of various options for the development of future events);
- Social (approbation of various forms of behavior in the search for the most acceptable options).



Stages of experimental activity

- Identification of the problem
 - Analysis of possible solutions to the problem
 - The practical solution of the highlighted problem
 - Inference
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Equipment for experiments

- Instruments: magnifiers, scales, hourglass, compass, magnets;
- Vessels made of plastic, glass, metal, ceramics;
- Natural material: pebbles, clay, sand, shells, cones, feathers, moss, leaves;
- Technical materials: nuts, clips, bolts, carnations;
- Paper: ordinary, cardboard, emery, copy;
- Other materials: mirrors, balloons, oil, flour, salt, sugar, colored and transparent glass, sieve, etc.

Examples of experimental studies for children with visual impairment

- Experiments with sand;
- Experiments with water;
- Experiments with paper;
- Experiments with air;
- Experiments with objects.



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