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As shown by practice, at first, mastering the skills of scientific work of students, primarily as lack of experience of the organization and experience of using different methods of scientific cognition and application of the traditional scientific practice of the laws of logic and rules. That encompasses the concept of method? A method is a way of achieving the objectives of the study. Hence the obvious crucial role of the method in the success of a [particular research work](#). Clearly, the choice of method depends on the possibility of implementation of research - its conduct and produce a specific result.

The modeling allows to apply the experimental method to the objects, the direct effect of which is difficult or impossible. It involves thinking or actions "Vice" of this object model.

The analysis and synthesis. Analysis is a research method by decomposing the object into its component parts. Synthesis, by contrast, is a compound obtained by analysis of parts in a whole. You need to remember that the methods of analysis and synthesis in any case are not isolated from each other and coexist, complementing each other. Methods of analysis and synthesis is the initial stage of research - the study of the literature on the theory of matter; the ascent from the abstract to the concrete assumes two conditionally independent of stage. In the first phase, a single object is dissected, described using a variety of concepts and judgments. In the second stage restores the original integrity of the object, it is reproduced in all facets - but in thinking.

Observation is an active cognitive process which draws on the work of the human senses and its object-oriented activity. It is the most basic method of knowledge. Observations should lead to results that do not depend on the will, of feelings and of human desires.

Comparison - one of the most common methods of knowledge. No wonder they say that everything is relative. The comparison allows to establish the similarities and differences of objects and phenomena. Identification of common, recurring phenomena is a serious step to the knowledge of the regularities and laws of the surrounding world;

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The experiment involves intervention in the natural conditions of existence of objects and phenomena or reproduction of their specific parties in a specific environment with the purpose of their study.