

GISAP:

PHYSICS, MATHEMATICS AND CHEMISTRY

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Physics, mathematics and chemistry act as the most important element in the system of human knowledge – a conceptual core of the outlook.

On the one hand, these branches of knowledge cover the most large-scale directions of studies of key regularities of surrounding reality. And this circumstance reasonably gives them the status of fundamental sciences.

On the other hand, physical, mathematical and chemical axioms, models, functions or assumptions closely connect theoretical and applied spheres of human intelligence development.

It is known that disclosure of certain mysteries of elements structure and material objects interaction, apprehended and analyzed at fundamental level, in future predetermines the development of a set of branches of scientific gnoseology. It is connected with the fact that natural-science conclusions are extrapolated on various spheres of the scientific process in the most organic way. They stimulate the development of progressive innovations within these spheres.

Thus, contrary to the widespread false ideas, fundamental natural sciences in combination with the descriptive and analytical potential of mathematical methodology always have not sectoral, but general scientific nature practically in all their manifestations.

Thomas Morgan
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