Problématique-Two Questions on the History of Function

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The concept of function is undoubtedly occupying a crucial place in modern mathematical culture. Consequently, there is a great interest in its epistemological, historical and didactical penetrations in the nature, the character, the development and the understanding of function and of functional way of thinking.1

The relevant studies are generally limited in the narrow mathematical context2, giving no light to the pragmatic aspect of function.

The eminent philosopher Ernst Cassirer (1874-1945) has repeatedly hinted, in his work, the relation between function and physical law3. The didactician Michael Otte has also pointed out that connection4. So, the following question evokes:

Which have been the interactions of the concept of function and physical law in the history of scientific thinking?

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That historical problématique evokes the following didactic question:

**In which way the historical understanding of the interaction between the function and physical law can help the didactic cohesion of mathematical education and the culture of physics?**

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