

*Integration of Logic Circuit Boards in Teaching Truth Tables*

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*Truth tables are the basic elements behind the "thinking" power of electronic devices. Basic modules of semiconductor electronics are generally referred to as logic gates. These gates can make decisions based on the presented inputs (statements). To make complicated decisions, a typical processor chip contains a large collection of these gates.*

*Typically, presenting the concepts of truth tables is a difficult task. Introducing logic gates and implementing a class project can not only help students to understand the importance of truth tables, but it also inspires them to create their own projects. First, this article describes the basics of logic gates and truth tables. Then, we describe the logic trainer board used in our class experiments. Utilizing many pictures, we demonstrate how to implement circuits on the logic trainer board.*

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