

# Decision Based Learning and Applications in Mathematics and Topology

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## **Abstract**

Conditional knowledge is generally an unrecognized and overlooked component of education, but key in the development of expertise. Decision Based Learning is a strategy that specifically addresses the development of conditional and schematized knowledge leading towards expertise. I will discuss the results of implementing Decision Based Learning in mathematics courses and how it applies to topology. In particular, the connections created through the expanding of conditional knowledge in the development of expertise is of vital importance for continued growth in the field of topology.