

A dominating set  $S$  of a graph  $G$  is a subset of its vertices such that every vertex of  $G$  is either an element of  $S$ , or adjacent to an element of  $S$ . For a graph  $G$ , consider all of its dominating sets. We can construct a graph whose vertices are these dominating sets, where two dominating sets are adjacent if one can be transformed into the other via a predetermined rule. This graph is called the (domination) reconfiguration graph of  $G$ . Many natural questions arise concerning the structure of these graphs, including questions of connectivity, diameter, and Hamiltonicity, to name a few. Various rulesets for adjacency are introduced, with some corresponding answers to these questions. A new, mixed model is proposed, along with some preliminary results.