Title: Construction of Diode Logic Crater.

Introduction .

A diode in a two-terrinal electrical device that allows current to flow in one direction but not the other It is like a pipe with an internal valve that allows current to flow freely in one direction but shuts down if the water toies to flow backward. The dioder two dereminal aree called anode and cathode. In this diade symbol, the arcrow points from the anode toward the cathode.

The device operates by allowing current to flow from ande to cathode, basically in the direction of the triangle. Recall the current is defined to flow from the more positive voltage toward the more negative voltage. It the diode anode is at a higher voltage than the cathode, the diode is said to be forward biased its resistance is very low, and current flows. 95 the ande is at a lower voltage than the cathode, the diode is reveruse-biased, its resistance is very high, and no current flows. The diode is not a perefect conductor, so there in a small voltage drop, approximately 0.7V, across it.

In this group of experiments we will implement some logic function using the DL circuit and discover the potential benefits and problems of using the DL logic.