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The Effects of MgCL₂, MgSO₄, and Sand on Metal

This project was to see the different effects of chemical de-icers on vehicles. The researcher tested three different chemicals that the state highway department uses on the roads. The purpose is to see which one has the greatest effect, such as, rusting or erosion. The hypothesis was that the magnesium chloride would have the greatest effect, and the sand and salt mixture would have the least. The researcher tested aluminum and steel with the de-icers. The researcher had some painted pieces of metal. The researcher tried to get as close to a real experiment and they cold. At the end of the project the hypothesis was rejected because the Epsom salt had the greatest effect on the steel. If the state highway department decided to put a de-icer down they should put magnesium chloride because it doesn't affect the wildlife around it and also the vehicles driving. This project came to a very good conclusion.