**Brief smmary**

The aim of this study is to find the relationship between water temperature and electrical conductivity in the Intermediate girls school 199 in Riyadh.

In this study, we used the experimental approach where the temperature protocol and electrical conductivity were measured within 3 months.

From this study, the researchers found that the relationship between temperature and electrical conductivity is a positive relationship so that the higher the temperature the greater the electrical conductivity.

We recommend at the end of the research that

The effect of a combination of salts in different water samples and its relationship to electrical conductivity values ​​is studied.

This study contributes to determination of water purity with temperature changes.