Please find attached data for RCBD experimental design. The data has:

Explanatory:
4 blocks
6 treatments of Salicylic acid application, replicated thrice within each block
Treatments 1,2,3,4,5 and 6 of salicylic acid applications are 1, 1.5, 2, 2,5. 3 and 3.5 mM (micro Mole) respectively

Response:
tomato plant leaves

Test for normality
Visualize data and check-> check boxplots or bar chart
Homogeneous errors -> Plot residual vs fit -> create models for residuals and fit
Independent errors -> Lag plot
Normal errors -> QQnorm, QQline, histogram

Test of differences:

Regression, One-way ANOVA, Two-way ANOVA