Plotting and statistics exercise, EEB R bootcamp

I. Use the ChickWeight R dataset to examine if there is an effect of diet on chick growth:

1. Plot and examine if there is a statistically significant difference between the weights of chicks assigned to different diet treatments on day 0.

2. Plot and examine if there is a statistically significant difference between the weights of chicks assigned to different diet treatments at the end of the study (on day 21).

3. Is there an effect of diet on chick growth? (**HINT**: you will need to use a repeated measures ANOVA).

4. Plot the effects of diet on chick growth.

5. Using a 'for' loop, plot the growth of each chick in a different color, all on the same plot.