A multilevel growth modeling analysis was done to predict which of four diets would result in the most increase in the weight of chicks. Specifically, we tested whether the interaction of diet and time could predict weight.

In our analysis we found that time was significantly associated with an increase in weight (*b* = 6.28, SE = 0.76, *t* = 11.53, *p* < .001). We next tested whether the interaction between diets and time were associated with weight, with diet 1 being the reference group. We found a significant effect for diet 3 (*b* = 5.15, SE = 1.30, *t* = 3.95, *p* < .001), and diet 4 (*b* = 3.26, SE = 1.31, *t* = 2.49, *p* < .05), but not for diet 2 (*b* = 2.33, SE = 1.30, *t* = 1.79, *p* = .0804).

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