Sample student conclusions.

- **Low-quality conclusion:** This conclusion, written by a student in Class A, was considered low quality because the student only lists pieces of data without mentioning any possible trends. There are no inferences made from the data:

  Bananas, beets, blueberries, and cantaloupe are all sweet and fruits. But, strawberries, pineapple and cranberry juice are sweet or tart. Apples and grenadine are also sweet and related to [the] fruits category. Some of the odd items we wouldn't eat by themselves. Cow milk, egg white, lobster and mushrooms are all mildly sweet.

- **High-quality conclusion:** This conclusion, written by a student in Class C, was considered high quality because the student discusses trends within some of the data and uses specific examples to illustrate the trends and justify the conclusion. The student also describes the lack of a trend within some of the data and attempts to explain why:

  From the data in this lab, I can recognize that substances with a pH below 5 are found to be tart. The tart taste may come with the acidity of a substance. Substances with a pH below 5 may taste tart and substances with a pH of 5 or higher may taste salty. However the sweet taste in the data appears to have no relation to pH because some of the foods with a pH below 5 were sweet and some with a pH of 5 or higher were also sweet. I believe that sweetness is affected mostly by the sugar content in food. You can tell because grenadine has a pH of 2.31 and it has some sweetness to it…Also it is made clear because foods from 2 pH to 8 pH all have something sweet in their pH group. In conclusion, foods more acidic than pH 5 are found to be tart and foods with a pH above are found to be salty. The sweetness of the food however is determined by the sugar content.