**Checklist:**

Aspect 1: Be able to collect data

 Identify possible data sources

 Obtain data from appropriate source (e.g. a database)

 Produce original data (e.g. from an experiment)

 Identify data and relate data to variables

 Distinguish between relevant and irrelevant data

Aspect 2: Be able to manipulate data

 Create a visual representation of data (e.g. a graph)

 Generate a statistic appropriate to that field (e.g. “calculate an average”)

 Use software to manipulate data (e.g. Excel)

 Use algebraic tools to manipulate data

Aspect 3: Be able to analyze data to draw informed conclusions

 Compare data with a theory or hypothesis

 Determine a relationship between variables

 Draw correct inferences from data