



Bivariate Measurement Data Investigation Checklist

Achievement

I can:

- Pose an appropriate relationship question using a given multivariate data set
- Select and use appropriate displays to visualize the data
- Identify features in the data, such as trends and patterns
- Find an appropriate model to describe the relationship between variables
- Describe the nature and strength of the relationship and relate it to the context
- Use the model to make a prediction
- Communicate the findings in a conclusion

Merit

I can

- Link the components of the statistical enquiry cycle to the context
- Refer to evidence such as statistics, data values, trends, or features of visual displays to support statements made
- Justify the choice of relationship question and variables based on the context
- Describe the strength of the relationship with references to visual aspects of the data
- Describe the nature of the relationship in context and justify this using evidence
- Interpret the prediction in context and justify its precision using statistical evidence

Excellence

I can:

- Integrate statistical and contextual knowledge throughout the investigation process
- Reflect on the investigation process and consider other relevant variables
- Evaluate the adequacy of the models used
- Demonstrate a deeper understanding of the models and their implications
- Discuss the relevance and generalizability of the findings to a wider population
- Make predictions using alternative models and compare their accuracy
- Extend the initial investigation by developing models with data separated into relevant subsets