



# Apply Bivariate Investigation Methods in Solving Problems

Achieved	Merit	Excellence
Investigate bivariate measurement data.	Investigate bivariate measurement data, with justification.	Investigate bivariate measurement data, with statistical insight.
<p><u>Justification</u> - Involves linking components of the statistical enquiry cycle to the context, and referring to evidence such as statistics, data values, trends, or features of visual displays in support of statements made.</p>		
<p><u>Statistical Insight</u> - Involves integrating statistical and contextual knowledge throughout the statistical enquiry cycle, and may include reflecting about the process; considering other relevant variables; evaluating the adequacy of any models; or showing a deeper understanding of models.</p>		

## Bivariate Measurement Data Investigation Methods

The methods included in this standard are related to:

- Posing an appropriate relationship question using a given multivariate data set
- Selecting and using appropriate displays
- Identifying features in data
- Finding an appropriate model
- Describing the nature and strength of the relationship and relating this to the context
- Using the model to make a prediction
- Communicating findings in a conclusion

## Problems

The problems will be set in real-life or mathematical contexts and provide opportunities to apply the bivariate measurement data investigation knowledge and methods.

## Key Vocabulary

Students are expected to understand and use terms related to bivariate measurement methods, such as:

- |  |   |                                     |
|--|---|-------------------------------------|
| <input type="checkbox"/> Bivariate data        | <input type="checkbox"/> Data feature             | <input type="checkbox"/> Prediction |
| <input type="checkbox"/> Relationship question | <input type="checkbox"/> Model                    | <input type="checkbox"/> Conclusion |
| <input type="checkbox"/> Data display          | <input type="checkbox"/> Relationship description |                                     |