



Evaluate Statistically Based Reports

Achieved	Merit	Excellence
Evaluate statistically based reports.	Evaluate statistically based reports, with justification.	Evaluate statistically based reports, with statistical insight.
<u>Justification</u> - Linking components of the investigation process to the context, explaining relevant considerations, and supporting findings with evidence from the experiment.		
<u>Statistical Insight</u> - Integrating statistical and contextual knowledge throughout, reflecting on the process, discussing variation, considering other relevant variables.		

Statistical Concepts and Processes

The methods included in this standard are related to:

- Statistical enquiry cycle
- Principles of experimental design
- Surveys and polls, including potential sources of bias
- Interpreting statistical inferences
- Interpreting statistical tables and graphs
- Analyzing statistical situations
- Critiquing causal-relationship claims
- Interpreting margins of error

Problems

The statistical reports will be based on real-life or mathematical contexts, and will provide opportunities to evaluate and critique the reports, their conclusions, and the statistical processes used.

Key Vocabulary

Students are expected to understand and use terms related to statistics and statistical reports, such as:

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| <input type="checkbox"/> Statistical report | <input type="checkbox"/> Inference | <input type="checkbox"/> Poll |
| <input type="checkbox"/> Conclusion | <input type="checkbox"/> Bias | <input type="checkbox"/> Experiment |
| <input type="checkbox"/> Evidence | <input type="checkbox"/> Survey | <input type="checkbox"/> Observational study |
| <input type="checkbox"/> Causal relationship | <input type="checkbox"/> Margin of error | |