



# Investigation Checklist

## Achievement

I can:

- Pose an investigative question about the experimental situation
- Plan the experiment by determining appropriate variables and measures, and determining data collection and recording methods
- Conduct the experiment and collect the data
- Select appropriate displays and measures
- Discuss the displays and measures
- Communicate findings in a conclusion

## Merit

I can

- Link the investigative question and purpose to the experimental situation
- Consider related variables and possible effects in the experimental plan
- Discuss the displays and measures, using supporting evidence linked to the context
- Communicate findings in a conclusion and link them to the experimental situation

## Excellence

I can:

- Develop an experimental plan that considers related variables and mitigates possible effects
- Integrate statistical and contextual knowledge when discussing the displays and measures
- Reflect on key aspects of the experimental process, such as potential sources of variability, effects of related variables, or areas for further investigation
- Communicate findings in a conclusion, providing statistically-produced evidence to support claims, and suggesting possible extensions or improvements to the experiment