

Lesson 6

Explanations based on experimental evidence allow predictions to be more reliable.

Goal

The strength of a conclusion is evaluated from a particular set of data and recommendations based on the experimental evidence and identifying sources of uncertainty in the data.

New Information Presented

Investigating possible sources of error or uncertainty in the data and conclusions that are drawn from the data.

Information Sources

Information sheets entitled *Simulation and Predictive software* and *Sources of Uncertainty*

Access Prior Knowledge

Students work through the sheet *Simulation and Predictive software*

Main point to draw out from students is that simulation and predictive software has to be compared to real experimental data to check that it is accurate.

Application Task

Activities:

Students to complete the worksheet *Sources of Uncertainty*

Goal Revisited

Class discussion of the sources of uncertainty in the experimental data.