

Extended Investigation Lesson Sequences

Acceleration

Lesson 1

Fact finding in the library.

They were given only the word Acceleration and so they have to get 3+ references (not wikipedia) with URLs or book titles. I'm aiming for the Harvard system eventually.

Lesson 2

Mulling it over.

What are they going to investigate? Factors such as Mass, Weight, Force, Drag, Angle, Height, Length, Pendulum (! In S3!) etc How are they going to do it? I suggest the TSA that they have already used for speed.

Lesson 3+4

Playing with the Kit.

Setting up, snagging, teacher in orbit in lab making sure all experiments are set up without danger etc.

Lesson 5 - 8

Gathering data.

This time is negotiable by the class and can be longer.

Lesson 9 - 10

Graphing and conclusions

For this we do graphs with broad outline, thick pen for the smooth curved/straight line. Some are able to put in uncertainties and get gradients hence laws from graph.

Lesson 11- 12

Poster/Powerpoint making

Posters have all work done separately and then Pritt stuck on to get a good layout. The poster must be eye-catching, informative. Not wordy. Pictures worth a thousand words etc.

Lesson 13 *Presentation*