

Physics assessment - Grade 9 - Autumn 2025/Spring 2026

Your name _____ Class _____ Physics group _____

Names of people you work with: _____

TASK:

Investigate if a lemon can be used as a battery which can be used to power a simple component such as an LED. In your evaluation, include ideas about whether food/organic material could be used as a viable source of electrical energy.

You will have a lemon and three different electrode metals from which to choose pairs. The 'diagram' is shown on the writing frame. Design, carry out and evaluate a fair test to investigate your prediction and hypothesis. Use the scientific report writing frame from the blog, and use a spreadsheet for recording and processing data. There is important information contained on this sheet, so read it fully.

You have at least three weeks of lessons in which to complete this task, so you are advised to use the first to predict and plan, the second to carry out at least one run through of your experiment, and then to start the conclusion and evaluation part.

Deadline: _____

Conditions for the task:

You work in pairs/threes but you must each hand in your own individual report. Your results will be identical, but all other written work must be your own even though you have discussed the work at each stage. The report is evidence of your work and therefore must be individual.

All of the sheets are available on www.karinparkerois.blogspot.com

